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MILITARY CONSTRUCTION APPROPRIATIONS FOR 1991

HEARINGS

BEFORE A

SUBCOMMITTEE OF THE
COMMITTEE ON APPROPRIATIONS
HOUSE OF REPRESENTATIVES

ONE HUNDRED FIRST CONGRESS
SECOND SESSION

SUBCOMMITTEE ON MILITARY CONSTRUCTION APPROPRIATIONS

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PART 3

Justification of the Budget Estimates

AIR FORCE

Page

Appropriation Request for Active Forces:
- **Air Force** 1
  - **Military Construction** 5
  - **Family Housing** 781

Appropriation Request for Reserve Components:
- **Air National Guard** 937
- **Air Force Reserve** 1087

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DEPARTMENT OF THE AIR FORCE

FY1991

BUDGET ESTIMATE SUBMISSION

MILITARY CONSTRUCTION AND FAMILY HOUSING

JUSTIFICATION DATA
SUBMITTED TO CONGRESS

JANUARY 1990

VOLUME I
INSIDE THE UNITED STATES

TABLE OF CONTENTS
FY 1991

VOLUME I — PAGE NUMBER

General

Table of Contents.............................. A-1
Program Summary.............................. B-1
State List (List of Projects).................. C-1
New Mission/Current Mission Exhibit............ D-1

Military Construction

Installation Index............................. E-1

Special Program Considerations

Statements.............................. F-1
Congressional Reporting Requirements.......... F-2
Non-MILCON Construction...................... F-4
Procurement.............................. F-5
O&M.............................. F-17
Research and Development.................. F-23

Budget Data:

Language.............................. G-1
Program and Financing Schedule............... G-2
Object Classification Schedule............... G-10
Projects Inside the United States.............. 1

VOLUME II

Projects Outside the United States.............. 452
Planning and Design.............................. 583

Cont.

TABLE OF CONTENTS
FY 1991

PAGE NUMBER

VOLUME II

General

Unspecified Minor Construction.................... 586

Access Roads.................................... 587

Projects Under $1,000,000......................... 589

Family Housing.................................. 675

VOLUME III

Classified Military Construction Projects Justifications

DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM
FISCAL YEAR 1991

($000)

	AUTHORIZATION FOR PROJECTS	AUTHORIZATION FOR APPROPRIATION	APPROPRIATION
MILITARY CONSTRUCTION			
Inside the United States	1,038,628	1,062,128	1,062,128
(Access Roads)	(9,000)	(9,000)	(9,000)
*(Arnold EDC Large Rocket Test Facility)	(0)	(109,300)	(109,300)
**(Vandenberg AFB-TITAN IV Launch Complex)	(105,000)	(19,200)	(19,200)
Outside the United States	184,059	184,059	196,059
***Canada FOLS/DOBS	(6,300)	(6,300)	(18,300)
Planning and Design	107,741	107,741	107,741
Minor Construction	10,272	10,272	10,272
TOTAL MILITARY CONSTRUCTION	1,340,700	1,364,200	1,376,200
MILITARY FAMILY HOUSING			
New Construction	2,988	2,988	2,988
Improvements	173,612	173,612	173,612
Planning and Design	6,000	6,000	6,000
Subtotal	182,600	182,600	182,600
Operations, Utilities, and Maintenance	678,308	678,308	678,308
Domestic Leasing	110,911	110,911	110,911
Debt Payment	81	81	81
Subtotal	789,300	789,300	789,300
TOTAL MILITARY FAMILY HOUSING	971,900	971,900	971,900
GRAND TOTAL AIR FORCE	2,312,600	2,336,100	2,348,100

*Project was fully authorized in amount of $226 million in FY 89 and FY 90 Authorization for appropriation and appropriation in FY 89 was $116 million. Balance being requested FY 91.

**Full project authorization being reuested for $105 million. Authorization for appropriation and appropriation requested is $19.2 million in FY 91 with balance to be requested in future programs.

***Funding requested is $18.3 million of which $12 million was authorized in FY 90 and $6.3 is new authorization in FY 91.

DEPARTMENT OF THE AIR FORCE
INDEX - PART I
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1991
(DOLLARS IN THOUSANDS)
INSIDE THE UNITED STATES

STATE/ COUNTRY	INSTALLATION AND PROJECT	AUTH AMOUNT	APPR AMOUNT	% DSGN JAN 90	PAGE
ALABAMA	GUNTER AFB				1
	ADD TO AND ALTER SENIOR NCO ACADEMY	8,200	8,200	50	2
	STUDENT DORMITORY	8,800	8,800	75	4
	STUDENT DORMITORY	3,100	3,100	95	6
	BASE TOTAL:	20,100	20,100		
	MAXWELL AFB				8
	ADD TO AND ALTER SECURITY POLICE OPERATIONS FACILITY	1,750	1,750	100	9
	COMMUNICATIONS GROUP COMPLEX	5,300	5,300	95	12
	JUDGE ADVOCATE GENERAL ACADEMIC FACILITY	7,700	7,700	60	14
	ALTER STUDENT DORMITORIES	2,750	2,750	95	17
	STUDENT DORMITORY	5,000	5,000	50	19
	BASE TOTAL:	22,500	22,500		
	STATE TOTAL:	42,600	42,600		
ALASKA	CLEAR AFS				21
	ALTER DORMITORY, PHASE II	5,000	5,000	100	22
	BASE TOTAL:	5,000	5,000		
	EIELSON AFB				24
	UPGRADE SEWAGE TREATMENT PLANT	12,400	12,400	35	25
	BASE TOTAL:	12,400	12,400		
	GALENA AIRPORT				28
	VEHICLE MAINTENANCE FACILITY	8,700	8,700	35	29
	BASE TOTAL:	8,700	8,700		

DEPARTMENT OF THE AIR FORCE
INDEX - PART I
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1991
(DOLLARS IN THOUSANDS)
INSIDE THE UNITED STATES

STATE/ COUNTRY	INSTALLATION AND PROJECT	AUTH AMOUNT	APPR AMOUNT	% DSGN JAN 90	PAGE
ALASKA	KING SALMON AIRPORT				32
	VEHICLE REFUELING SHOP	2,500	2,500	35	33
	BASE TOTAL:	2,500	2,500		
	SHEMYA AFB				36
	VEHICLE MAINTENANCE FACILITY	7,700	7,700	45	37
	BASE ENGINEER MAINTENANCE SHOP	3,700	3,700	50	40
	ADD TO AND UPGRADE BASE ENGINEER COMPLEX	6,300	6,300	100	43
	RENOVATE SUPPORT FACILITY	15,400	15,400	60	45
	ALTER DORMITORY	7,800	7,800	35	48
	SEWAGE TREATMENT PLANT	2,700	2,700	45	50
	UPGRADE BASE ROADS	1,400	1,400	60	53
	FLIGHTLINE ACCESS ROAD	2,400	2,400	50	55
	BASE TOTAL:	47,400	47,400		
	VARIOUS LOCATIONS				57
	OTH-B NON-TECHNICAL SUPPORT FACILITIES	11,000	11,000	60	58
	BASE TOTAL:	11,000	11,000		
	STATE TOTAL:	87,000	87,000		
ARIZONA	LUKE AFB				60
	LAND ACQUISITION	1,800	1,800	N/A	61
	BASE TOTAL:	1,800	1,800		

DEPARTMENT OF THE AIR FORCE
INDEX - PART I
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1991
(DOLLARS IN THOUSANDS)
INSIDE THE UNITED STATES

STATE/ COUNTRY	INSTALLATION AND PROJECT	AUTH AMOUNT	APPR AMOUNT	% DSGN JAN 90	PAGE
ARIZONA	WILLIAMS AFB				62
	AUXILIARY FIELD/LAND ACQUISITION	5,500	5,500	60	63
	ADD TO AND ALTER FLIGHT SIMULATOR	400	400	75	590
	SPECIALIZED UPT MAINTENANCE AND OPERATIONS SUPPORT	900	900	35	592
	BASE ENGINEER COMPLEX	2,350	2,350	35	66
	BASE TOTAL:	9,150	9,150		
	STATE TOTAL:	10,950	10,950		
CALIFORNIA	BEALE AFB				68
	DORMITORY	6,300	6,300	100	69
	BASE TOTAL:	6,300	6,300		
	CASTLE AFB				72
	SECURITY POLICE OPERATIONS FACILITY	3,000	3,000	65	73
	BASE TOTAL:	3,000	3,000		
	EDWARDS AFB				76
	RENOVATE FLIGHT TEST AUDIO-VISUAL SUPPORT FACILITY	5,500	5,500	60	78
	JET ENGINE MAINTENANCE FACILITY	11,600	11,600	80	81
	BASE TOTAL:	17,100	17,100		
	MARCH AFB				84
	TROOP SUBSISTENCE WAREHOUSE	1,050	1,050	100	85
	BASE TOTAL:	1,050	1,050		

DEPARTMENT OF THE AIR FORCE
INDEX - PART I
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1991
(DOLLARS IN THOUSANDS)
INSIDE THE UNITED STATES

STATE/ COUNTRY	INSTALLATION AND PROJECT	AUTH AMOUNT	APPR AMOUNT	% DSGN JAN 90	PAGE
CALIFORNIA	MCCLELLAN AFB				87
	ADD TO AND ALTER DEPOT CORROSION CONTROL COMPLEX	11,200	11,200	100	88
	BASE TOTAL:	11,200	11,200		
	SIERRA ARMY DEPOT				91
	STUDENT DORMITORY	3,650	3,650	65	92
	BASE TOTAL:	3,650	3,650		
	TRAVIS AFB				94
	ALTER CONSOLIDATED SUPPORT CENTER, PHASE II	5,800	5,800	2	95
	DINING FACILITY	5,000	5,000	20	97
	BASE TOTAL:	10,800	10,800		
	VANDENBERG AFB				100
	TITAN IV LAUNCH COMPLEX, PHASE I	105,000	19,200	35	101
	LAND ACQUISITION OPTION	10,000	10,000	N/A	103
	BASE TOTAL:	115,000	29,200		
	STATE TOTAL:	168,100	82,300		
COLORADO	FALCON AFS				104
	MILSTAR COMMUNICATIONS GROUND TERMINAL	710	710	100	594
	BASE TOTAL:	710	710		
	PETERSON AFB				105
	MILSTAR COMMUNICATION GROUND TERMINAL	1,350	1,350	100	106

DEPARTMENT OF THE AIR FORCE
INDEX - PART I
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1991
(DOLLARS IN THOUSANDS)
INSIDE THE UNITED STATES

STATE/ COUNTRY	INSTALLATION AND PROJECT	AUTH AMOUNT	APPR AMOUNT	% DSGN JAN 90	PAGE
COLORADO	ADD TO AND ALTER DORMITORY, PHASE I	2,700	2,700	85	108
	BASE TOTAL:	4,050	4,050		
	STATE TOTAL:	4,760	4,760		
FLORIDA	AVON PARK RANGE				111
	DORMITORY	700	700	100	596
	BASE TOTAL:	700	700		
	CAPE CANAVERAL AFS				112
	CHEMICAL TESTING LABORATORY	2,400	2,400	100	113
	BASE TOTAL:	2,400	2,400		
	EGLIN AFB				116
	MISSILE MAINTENANCE FACILITY	1,900	1,900	90	117
	AIRCRAFT PARTS WAREHOUSE	2,800	2,800	100	120
	BASE TOTAL:	4,700	4,700		
	HOMESTEAD AFB				123
	JET FUEL STORAGE	2,400	2,400	60	124
	ALTER DORMITORIES	5,500	5,500	75	126
	BASE TOTAL:	7,900	7,900		
	MACDILL AFB				128
	UPGRADE RUNWAY	8,900	8,900	60	129
	ADD TO U.S. CENTRAL COMMAND HEADQUARTERS	3,350	3,350	90	131
	BASE TOTAL:	12,250	12,250		
	STATE TOTAL:	27,950	27,950		

DEPARTMENT OF THE AIR FORCE
INDEX - PART I
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1991
(DOLLARS IN THOUSANDS)
INSIDE THE UNITED STATES

STATE/ COUNTRY	INSTALLATION AND PROJECT	AUTH AMOUNT	APPR AMOUNT	% DSGN JAN 90	PAGE
GEORGIA	MOODY AFB				133
	ALTER DORMITORIES	4,400	4,400	60	134
	BASE TOTAL:	4,400	4,400		
	ROBINS AFB				136
	ADD TO AND ALTER INTEGRATION SUPPORT FACILITY	8,300	8,300	65	138
	ADVANCED MICROELECTRONICS FACILITY	9,400	9,400	65	140
	COMBAT COMMUNICATIONS EQUIPMENT MAINTENANCE FACILITY	3,500	3,500	70	143
	BASE TOTAL:	21,200	21,200		
	STATE TOTAL:	25,600	25,600		
HAWAII	HICKAM AFB				146
	POL OPERATIONS FACILITY	1,000	1,000	100	597A
	VEHICLE OPERATIONS/MAINTENANCE FACILITY	1,300	1,300	100	147
	DORMITORY	6,100	6,100	60	149
	ADD TO CHILD DEVELOPMENT CENTER	770	770	60	598
	FIRE PROTECTION - MAINTENANCE HANGAR	2,250	2,250	60	151
	BASE TOTAL:	11,420	11,420		

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DEPARTMENT OF THE AIR FORCE
INDEX - PART I
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1991
(DOLLARS IN THOUSANDS)
INSIDE THE UNITED STATES

STATE/ COUNTRY	INSTALLATION AND PROJECT	AUTH AMOUNT	APPR AMOUNT	% DSGN JAN 90	PAGE
HAWAII	WHEELER AFB				153
	COMBAT ARMS TRAINING AND MAINTENANCE FACILITIES	1,400	1,400	35	154
	ADD TO AND ALTER GROUP OPERATIONS FACILITY	2,100	2,100	65	157
	BASE TOTAL:	3,500	3,500		
	STATE TOTAL:	14,920	14,920		
IDAHO	MOUNTAIN HOME AFB				159
	ADD TO AND ALTER SQUADRON OPERATIONS FACILITY	1,350	1,350	95	160
	BASE TOTAL:	1,350	1,350		
	STATE TOTAL:	1,350	1,350		
ILLINOIS	SCOTT AFB				162
	CHILD DEVELOPMENT CENTER	2,160	2,160	65	163
	BASE TOTAL:	2,160	2,160		
	STATE TOTAL:	2,160	2,160		
LOUISIANA	BARKSDALE AFB				166
	ALTER EXPLOSIVE CARGO PAD ACCESS TAXIWAY	1,600	1,600	100	168
	PEACEKEEPER-GARRISON FACILITIES/LAND ACQUISITION	56,150	56,150	50	171
	PEACEKEEPER-MISSILE OPERATIONS FACILITY	3,050	3,050	90	174
	PEACEKEEPER-TRAINING TRAIN SHELTER	2,800	2,800	35	176

DEPARTMENT OF THE AIR FORCE
INDEX - PART I
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1991
(DOLLARS IN THOUSANDS)
INSIDE THE UNITED STATES

STATE/ COUNTRY	INSTALLATION AND PROJECT	AUTH AMOUNT	APPR AMOUNT	% DSGN JAN 90	PAGE
LOUISIANA	PEACEKEEPER-INTEGRATED MAINTENANCE FACILITY	2,150	2,150	90	178
	PEACEKEEPER-ADD TO AND ALTER COMMUNICATIONS FACILITY	730	730	50	600
	MUNITIONS SUPPORT EQUIPMENT STORAGE FACILITY	630	630	60	602
	PEACEKEEPER-ROAD, RAILROAD AND UTILITIES	7,600	7,600	50	180
	BASE TOTAL:	74,710	74,710		
	STATE TOTAL:	74,710	74,710		
MAINE	BANGOR ANGB				182
	SQUADRON SUPPORT FACILITY	970	970	60	604
	BASE TOTAL:	970	970		
	LORING AFB				183
	MUNITIONS SUPPORT EQUIPMENT STORAGE FACILITY	830	830	60	606
	BASE TOTAL:	830	830		
	STATE TOTAL:	1,800	1,800		
MARYLAND	ANDREWS AFB				184
	FIRE/CRASH RESCUE STATION	1,750	1,750	100	185
	ADD TO AND ALTER COMBAT ARMS TRAINING FACILITY	1,300	1,300	75	188
	BASE TOTAL:	3,050	3,050		

DEPARTMENT OF THE AIR FORCE
INDEX - PART I
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1991
(DOLLARS IN THOUSANDS)
INSIDE THE UNITED STATES

STATE/ COUNTRY	INSTALLATION AND PROJECT	AUTH AMOUNT	APPR AMOUNT	% DSGN JAN 90	PAGE
MARYLAND	FORT GEORGE G. MEADE				190
	DEFENSE COURIER STATION	1,800	1,800	35	191
	BASE TOTAL:	1,800	1,800		
	STATE TOTAL:	4,850	4,850		
MASSACHUSETTS	HANSCOM AFB				194
	ELECTROMAGNETIC TECHNOLOGY RESEARCH LABORATORY	3,800	3,800	90	195
	BASE TOTAL:	3,800	3,800		
	STATE TOTAL:	3,800	3,800		
MICHIGAN	K. I. SAWYER AFB				197
	CONTROL TOWER	2,700	2,700	35	198
	BASE TOTAL:	2,700	2,700		
	WURTSMITH AFB				200
	ADD TO AND ALTER CHILD DEVELOPMENT CENTER	960	960	60	608
	BASE TOTAL:	960	960		
	STATE TOTAL:	3,660	3,660		
MISSISSIPPI	COLUMBUS AFB				202
	ADD TO AND ALTER FLIGHT SIMULATOR	400	400	75	619
	BASE TOTAL:	400	400		
	STATE TOTAL:	400	400		

DEPARTMENT OF THE AIR FORCE
INDEX - PART I
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1991
(DOLLARS IN THOUSANDS)
INSIDE THE UNITED STATES

STATE/ COUNTRY	INSTALLATION AND PROJECT	AUTH AMOUNT	APPR AMOUNT	% DSGN JAN 90	PAGE
MISSOURI	WHITEMAN AFB				203
	B-2 IMPACT AID	1,000	1,000		610
	B-2 AIRCRAFT ACCESS APRON AND TAXIWAY UPGRADE	7,900	7,900	35	206
	B-2 HYDRANT FUEL/AIRCRAFT SUPPORT SYSTEMS	12,000	12,000	35	208
	B-2 AIRCRAFT MAINTENANCE DOCKS	8,700	8,700	35	211
	B-2 WEAPONS RECEIVING AND PROCESSING FACILITY	1,700	1,700	35	214
	B-2 AVIONICS SHOP	5,000	5,000	35	216
	B-2 SURVIVAL EQUIPMENT SHOP	1,000	1,000	35	615
	B-2 WEAPONS STORAGE IGLOOS	5,600	5,600	35	218
	B-2 HAZARDOUS MATERIAL STORAGE	1,600	1,600	35	220
	B-2 WEAPONS STORAGE AREA SUPPLY WAREHOUSE	800	800	35	613
	B-2 DORMITORY	6,500	6,500	35	222
	B-2-ADD TO AND ALTER BASE LIBRARY/EDUCATION CENTER	3,500	3,500	100	224
	B-2 ADD TO AND ALTER CHAPEL/ COMMUNITY ACTIVITY FACILITY	1,700	1,700	35	227
	B-2 ADD TO AND ALTER PHYSICAL FITNESS CENTER	3,600	3,600	100	230
	B-2 ADD TO AND ALTER CHILD DEVELOPMENT CENTER	750	750	100	617

DEPARTMENT OF THE AIR FORCE
INDEX - PART I
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1991
(DOLLARS IN THOUSANDS)
INSIDE THE UNITED STATES

STATE/ COUNTRY	INSTALLATION AND PROJECT	AUTH AMOUNT	APPR AMOUNT	% DSGN JAN 90	PAGE
MISSOURI	B-2 ADD TO AND ALTER UTILITIES	9,400	9,400	35	233
	B-2 DEFENSE ACCESS ROADS	9,000	9,000	N/A	239
	B-2 UPGRADE BASE ROADS	4,000	4,000	35	237
	B-2 MUNITIONS CONVOY ROADS	6,000	6,000	35	235
	B-2 WEAPONS STORAGE AREA SECURITY FENCING	5,900	5,900	35	240
	FIRE PROTECTION SYSTEM	750	750	60	611
	BASE TOTAL:	96,400	96,400		
	STATE TOTAL:	96,400	96,400		
NEBRASKA	OFFUTT AFB				242
	ALTER PHYSICAL FITNESS CENTER AND FIELD HOUSE	2,600	2,600	60	244
	BASE TOTAL:	2,600	2,600		
	STATE TOTAL:	2,600	2,600		
NEVADA	INDIAN SPRINGS AUX FLD				247
	MUNITIONS LOADING/REVETMENTS, PHASE II	2,550	2,550	90	248
	BASE TOTAL:	2,550	2,550		
	NELLIS AFB				250
	PARARESCUE FACILITY	1,050	1,050	75	251
	SQUADRON OPERATIONS FACILITY	1,000	1,000	75	632
	MAINTENANCE HANGAR	5,000	5,000	75	253

DEPARTMENT OF THE AIR FORCE
INDEX - PART I
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1991
(DOLLARS IN THOUSANDS)
INSIDE THE UNITED STATES

STATE/ COUNTRY	INSTALLATION AND PROJECT	AUTH AMOUNT	APPR AMOUNT	% DSGN JAN 90	PAGE
NEVADA	ADD TO AND ALTER ELECTRICAL DISTRIBUTION SYSTEM	5,200	5,200	90	255
	BASE SECURITY FENCING	270	270	100	630
	BASE TOTAL:	12,520	12,520		
	STATE TOTAL:	15,070	15,070		
NEW JERSEY	MCGUIRE AFB				257
	ADD TO FLIGHT SIMULATOR FACILITY	3,000	3,000	35	258
	ALTER DORMITORIES	4,850	4,850	100	260
	BASE TOTAL:	7,850	7,850		
	STATE TOTAL:	7,850	7,850		
NEW MEXICO	HOLLOMAN AFB				263
	ALTER DORMITORY	2,700	2,700	50	264
	SECURITY IMPROVEMENTS	310	310	60	628
	BASE TOTAL:	3,010	3,010		
	KIRTLAND AFB				266
	ADD TO AND ALTER HELICOPTER TRAINING AREA	2,650	2,650	100	267
	ALTER DORMITORIES	1,550	1,550	100	270
	BASE TOTAL:	4,200	4,200		
	STATE TOTAL:	7,210	7,210		
NORTH CAROLINA	SEYMOUR JOHNSON AFB				273
	REPAIR TAXIWAY	1,052	1,052	95	274

DEPARTMENT OF THE AIR FORCE
INDEX - PART I
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1991
(DOLLARS IN THOUSANDS)
INSIDE THE UNITED STATES

STATE/ COUNTRY	INSTALLATION AND PROJECT	AUTH AMOUNT	APPR AMOUNT	% DSGN JAN 90	PAGE
NORTH CAROLINA	BASE FORMS AND PUBLICATIONS WAREHOUSE	600	600	60	621
	FIRE PROTECTION SYSTEMS	850	850	95	623
	BASE TOTAL:	2,502	2,502		
	STATE TOTAL:	2,502	2,502		
NORTH DAKOTA	GRAND FORKS AFB				276
	PEACEKEEPER-GARRISON FACILITIES	50,000	50,000	50	278
	PEACEKEEPER-TRAINING TRAIN SHELTER	3,000	3,000	35	281
	PEACEKEEPER-MISSILE OPERATIONS INTEGRATED MAINTENANCE FAC	5,500	5,500	50	286
	ADD TO AND ALTER MISSILE MAINTENANCE/SUPPORT FACILITY	4,700	4,700	65	283
	ADD TO AND ALTER TRANSPORTATION COMPLEX	4,150	4,150	60	288
	PEACEKEEPER-ADD TO AND ALTER COMMUNICATIONS MAINTENANCE FAC	800	800	50	625
	PEACEKEEPER-ROAD, RAILROAD AND UTILITIES	7,900	7,900	50	291
	PEACEKEEPER-LAND ACQUISITION	1,000	1,000	N/A	627
	BASE TOTAL:	77,050	77,050		
	MINOT AFB				293
	CHILD DEVELOPMENT CENTER	3,600	3,600		294
	BASE TOTAL:	3,600	3,600		
	STATE TOTAL:	80,650	80,650		

DEPARTMENT OF THE AIR FORCE
INDEX - PART I
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1991
(DOLLARS IN THOUSANDS)
INSIDE THE UNITED STATES

STATE/ COUNTRY	INSTALLATION AND PROJECT	AUTH AMOUNT	APPR AMOUNT	% DSGN JAN 90	PAGE
OHIO	NEWARK AFB				296
	PEACEKEEPER-GUIDANCE AND CONTROL FACILITY	5,100	5,100	90	297
	BASE TOTAL:	5,100	5,100		
	WRIGHT-PATTERSON AFB				299
	FOREIGN MATERIEL EXPLOITATION FACILITY	4,650	4,650	35	301
	AFIT PROFESSIONAL AND TECHNICAL EDUCATION FACILITY	5,500	5,500	95	304
	BASE TOTAL:	10,150	10,150		
	STATE TOTAL:	15,250	15,250		
OKLAHOMA	ALTUS AFB				307
	C-17 SHORTFIELD ASSAULT STRIP	9,000	9,000	65	308
	C-17 ADD TO FLIGHT SIMULATOR FACILITY	7,100	7,100	60	310
	ALTER FLIGHT SIMULATOR FACILITY	800	800	65	634
	C-17 FIELD TRAINING FACILITY	4,800	4,800	50	312
	BASE TOTAL:	21,700	21,700		
	TINKER AFB				314
	B-2 ADD TO AND ALTER DEPOT MAINTENANCE HANGAR	12,100	12,100	90	316
	B-2 ADD TO AND ALTER COMPOSITE REPAIR FACILITY	5,700	5,700	90	318
	CONSOLIDATED FUEL CONTROL TEST FACILITY/LAND ACQUISITION	13,600	13,600	35	320

DEPARTMENT OF THE AIR FORCE
INDEX - PART I
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1991
(DOLLARS IN THOUSANDS)
INSIDE THE UNITED STATES

STATE/ COUNTRY	INSTALLATION AND PROJECT	AUTH AMOUNT	APPR AMOUNT	% DSGN JAN 90	PAGE
OKLAHOMA	SYSTEMS ENGINEERING FACILITY	650	650	35	636
	LOGISTICAL SYSTEMS OPERATIONS CENTER/LAND ACQUISITION	13,200	13,200	50	323
	UPGRADE ELECTRICAL DISTRIBUTION SYSTEM	3,500	3,500	60	326
	B-2 ADD TO HANGAR FIRE PROTECTION SYSTEM	3,600	3,600	100	330
	AWACS AIRCRAFT FIRE PROTECTION	2,750	2,750	60	328
	BASE TOTAL:	55,100	55,100		
	VANCE AFB				332
	ADD TO AND ALTER FLIGHT SIMULATOR	400	400	75	638
	BASE TOTAL:	400	400		
	STATE TOTAL:	77,200	77,200		
SOUTH CAROLINA	CHARLESTON AFB				
	SECURITY POLICE OPERATIONS FACILITY	1,550	1,550	100	333
	PARACHUTE DRYING TOWER	500	500	100	640
	COMMAND POST/BASE OPERATIONS FACILITY	2,250	2,250	100	336
	C-17 ALTER AIRCRAFT MAINTENANCE FACILITIES	7,900	7,900	65	339
	C-17 ALTER ENGINE INSPECTION AND REPAIR FACILITY	840	840	65	642

DEPARTMENT OF THE AIR FORCE
INDEX - PART I
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1991
(DOLLARS IN THOUSANDS)
INSIDE THE UNITED STATES

STATE/ COUNTRY	INSTALLATION AND PROJECT	AUTH AMOUNT	APPR AMOUNT	% DSGN JAN 90	PAGE
SOUTH CAROLINA	VEHICLE OPERATIONS FACILITY	1,050	1,050	100	341
	BASE TOTAL:	14,090	14,090		
	STATE TOTAL:	14,090	14,090		
SOUTH DAKOTA	ELLSWORTH AFB				343
	UPGRADE ELECTRICAL DISTRIBUTION SYSTEM	13,150	13,150	60	345
	BASE TOTAL:	13,150	13,150		
	STATE TOTAL:	13,150	13,150		
TENNESSEE	ARNOLD EDC				348
	LARGE ROCKET TEST FACILITY, (J6) PHASE III	0*	109,300	100	349
	BASE TOTAL:	0	109,300		
	STATE TOTAL:	0	109,300		
TEXAS	BROOKS AFB				352
	BASE ENGINEER COMPLEX	4,100	4,100	100	353
	BASE TOTAL:	4,100	4,100		
	CARSWELL AFB				356
	HYDRANT FUELING SYSTEM	10,700	10,700	65	357
	AIRCRAFT PARKING APRON LIGHTING	1,350	1,350	95	360
	ELECTRIC SUBSTATION ACQUISITION (PIF)	566	566	N/A	644
	BASE TOTAL:	12,616	12,616		

*Project authorization (but not authorization for appropriation) provided in FY 89 and FY 90.

DEPARTMENT OF THE AIR FORCE
INDEX - PART I
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1991
(DOLLARS IN THOUSANDS)
INSIDE THE UNITED STATES

STATE/ COUNTRY	INSTALLATION AND PROJECT	AUTH AMOUNT	APPR AMOUNT	% DSGN JAN 90	PAGE
TEXAS	DYESS AFB				362
	RUNWAY APPROACH LIGHTING	1,050	1,050	60	364
	AIRCRAFT CORROSION CONTROL FACILITY	4,100	4,100	100	367
	ADD TO AND ALTER VEHICLE MAINTENANCE SHOP	2,400	2,400	35	369
	BASE TOTAL:	7,550	7,550		
	GOODFELLOW AFB				372
	SECURITY POLICE OPERATIONS FACILITY	980	980	50	646
	BASE TOTAL:	980	980		
	KELLY AFB				373
	AIR FORCE SERVICE INFORMATION AND NEWS CENTER FACILITY	4,000	4,000	65	375
	ADD TO AND ALTER DEPOT CORROSION CONTROL FACILITY	6,300	6,300	60	378
	BASE TOTAL:	10,300	10,300		
	LACKLAND AFB				381
	FIRE STATION	1,350	1,350	35	383
	BASE ENGINEER COMPLEX	8,000	8,000	60	385
	DINING FACILITY	4,000	4,000	65	387
	UPGRADE SEWER SYSTEM	5,000	5,000	70	389
	BASE ROADS	4,150	4,150	35	391
	BASE TOTAL:	22,500	22,500		

DEPARTMENT OF THE AIR FORCE
INDEX - PART I
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1991
(DOLLARS IN THOUSANDS)
INSIDE THE UNITED STATES

STATE/ COUNTRY	INSTALLATION AND PROJECT	AUTH AMOUNT	APPR AMOUNT	% DSGN JAN 90	PAGE
TEXAS	LAUGHLIN AFB				393
	ADD TO AND ALTER FLIGHT SIMULATOR	400	400	75	650
	SPECIALIZED UPT MAINTENANCE SUPPORT	970	970	60	652
	TROOP SUBSISTENCE WAREHOUSE	450	450	50	648
	BASE TOTAL:	1,820	1,820		
	RANDOLPH AFB				398
	SPECIALIZED UPT MAINTENANCE SUPPORT	1,750	1,750	50	395
	BASE TOTAL:	1,750	1,750		
	REESE AFB				398
	SPECIALIZED UPT MAINTENANCE HANGAR	4,100	4,100	90	399
	TRAFFIC MANAGEMENT FACILITY	990	990	90	654
	BASE TOTAL:	5,090	5,090		
	SHEPPARD AFB				401
	AIRCRAFT CORROSION CONTROL FACILITY	550	550	50	656
	BASE ENGINEER COMPLEX	6,800	6,800	50	402
	WING OPERATIONS FACILITY	1,050	1,050	70	405
	BASE TOTAL:	8,400	8,400		
	STATE TOTAL:	75,106	75,106		

DEPARTMENT OF THE AIR FORCE
INDEX - PART I
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1991
(DOLLARS IN THOUSANDS)
INSIDE THE UNITED STATES

STATE/ COUNTRY	INSTALLATION AND PROJECT	AUTH AMOUNT	APPR AMOUNT	% DSGN JAN 90	PAGE
UTAH	HILL AFB				407
	PEACEKEEPER STAGE STORAGE FACILITY	3,250	3,250	35	409
	PEACEKEEPER ORDNANCE STORAGE	3,250	3,250	35	411
	DEPOT WAREHOUSE	16,000	16,000	100	413
	BASE TOTAL:	22,500	22,500		
	STATE TOTAL:	22,500	22,500		
VIRGINIA	LANGLEY AFB				416
	SOUND SUPPRESSOR SUPPORT	600	600	95	658
	BASE TOTAL:	600	600		
	STATE TOTAL:	600	600		
WASHINGTON	FAIRCHILD AFB				417
	PEACEKEEPER-GARRISON FACILITIES	73,000	73,000	35	419
	PEACEKEEPER-TRAINING TRAIN SHELTER	3,750	3,750	35	422
	ALTER AIRCRAFT MAINTENANCE COMPLEX	9,600	9,600	50	424
	PEACEKEEPER-MISSILE OPERATIONS MAINTENANCE FACILITY	6,900	6,900	35	427
	PEACEKEEPER-ADD TO AND ALTER COMMUNICATIONS MAINT FACILITY	990	990	35	660
	ADD TO AND ALTER AIRCRAFT PARKING APRON LIGHTING	1,600	1,600	60	429

DEPARTMENT OF THE AIR FORCE
INDEX - PART I
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1991
(DOLLARS IN THOUSANDS)
INSIDE THE UNITED STATES

STATE/ COUNTRY	INSTALLATION AND PROJECT	AUTH AMOUNT	APPR AMOUNT	% DSGN JAN 90	PAGE
WASHINGTON	PEACEKEEPER-ROAD, RAILROAD AND UTILITIES	11,200	11,200	50	431
	PEACEKEEPER-LAND ACQUISITION	1,000	1,000	N/A	662
	BASE TOTAL:	108,040	108,040		
	MCCHORD AFB				433
	SQUADRON OPERATIONS FACILITY	5,200	5,200	95	434
	BASE TOTAL:	5,200	5,200		
	STATE TOTAL:	113,240	113,240		
WYOMING	F. E. WARREN AFB				436
	ADD TO AND ALTER TRANSPORTATION COMPLEX	4,400	4,400	90	437
	PEACEKEEPER-DORMITORY	5,200	5,200	90	440
	BASE TOTAL:	9,600	9,600		
	STATE TOTAL:	9,600	9,600		
VARIOUS LOCATIONS	CLASSIFIED LOCATION				442
	ALTER SQUADRON OPERATIONS FACILITY	2,000	2,000	5	443
	FLIGHT SIMULATION TRAINING	3,400	3,400	5	445
	ADD TO AND ALTER FUEL SYSTEMS MAINTENANCE DOCK	2,200	2,200	5	447
	CONVENTIONAL MUNITIONS SHOP	950	950	5	665
	ALTER AVIONICS SHOP	850	850	5	663

DEPARTMENT OF THE AIR FORCE
INDEX - PART I
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1991
(DOLLARS IN THOUSANDS)
INSIDE THE UNITED STATES

STATE/ COUNTRY	INSTALLATION AND PROJECT	AUTH AMOUNT	APPR AMOUNT	% DSGN JAN 90	PAGE
VARIOUS LOCATIONS	MUNITIONS STORAGE FACILITY	1,600	1,600	5	449
	BASE TOTAL:	11,000	11,000		
	STATE TOTAL:	11,000	11,000		
	INSIDE UNITED STATES TOTAL:	1,038,628	1,062,128		

DEPARTMENT OF THE AIR FORCE
INDEX - PART I
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1991
(DOLLARS IN THOUSANDS)
OUTSIDE THE UNITED STATES

STATE/ COUNTRY	INSTALLATION AND PROJECT	AUTH AMOUNT	APPR AMOUNT	% DSGN JAN 90	PAGE
ANTIGUA	ANTIGUA AS				452
	INSTRUMENTATION FACILITY	8,200	8,200	90	453
	BASE TOTAL:	8,200	8,200		
	COUNTRY TOTAL:	8,200	8,200		
CANADA	VARIOUS LOCATIONS				456
	FORWARD OPERATING LOCATIONS	6,300	18,300	N/A	457
	BASE TOTAL:	6,300	18,300		
	COUNTRY TOTAL:	6,300	18,300		
GERMANY	BITBURG AB				458
	ADD TO PHYSICAL FITNESS CENTER	2,000	2,000	60	459
	BASE TOTAL:	2,000	2,000		
	HAHN AB				462
	UPGRADE WATER STORAGE AND DISTRIBUTION SYSTEM	4,300	4,300	100	463
	BASE TOTAL:	4,300	4,300		
	RHEIN MAIN AB				465
	COMMUNICATIONS CONTROL CENTER	3,250	3,250	85	466
	BASE TOTAL:	3,250	3,250		
	SPANGDAHLEM AB				469
	UPGRADE SEWAGE TREATMENT PLANT/SEWER SYSTEM	4,350	4,350	90	470
	ADD TO AND ALTER WATER STORAGE AND DISTRIBUTION SYSTEM	4,900	4,900	100	472
	BASE TOTAL:	9,250	9,250		

DEPARTMENT OF THE AIR FORCE
INDEX - PART I
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1991
(DOLLARS IN THOUSANDS)
OUTSIDE THE UNITED STATES

STATE/ COUNTRY	INSTALLATION AND PROJECT	AUTH AMOUNT	APPR AMOUNT	% DSGN JAN 90	PAGE
GERMANY	MARIENFELDE COMM STA				474
	UPGRADE OPERATIONS FACILITY	1,621	1,621	100	475
	BASE TOTAL:	1,621	1,621		
	COUNTRY TOTAL:	20,421	20,421		
GREENLAND	THULE AB				478
	UPGRADE AIRFIELD PAVEMENTS, PHASE I	6,300	6,300	35	479
	BASE TOTAL:	6,300	6,300		
	COUNTRY TOTAL:	6,300	6,300		
HONDURAS	LA MESA AB				482
	AIRFIELD IMPROVEMENTS	12,600	12,600	60	483
	BASE TOTAL:	12,600	12,600		
	PALMEROLA (SOTO CANO) AB				485
	C-130 AIRCRAFT APRON	4,600	4,600	60	486
	BASE TOTAL:	4,600	4,600		
	COUNTRY TOTAL:	17,200	17,200		
ITALY	GHEDI AF				488
	ALTER MUNITIONS STORAGE FACILITY	550	550	100	667
	BASE TOTAL:	550	550		
	RIMINI AF				489
	ALTER MUNITIONS STORAGE FACILITY	510	510	100	669
	BASE TOTAL:	510	510		

DEPARTMENT OF THE AIR FORCE
INDEX - PART I
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1991
(DOLLARS IN THOUSANDS)
OUTSIDE THE UNITED STATES

STATE/ COUNTRY	INSTALLATION AND PROJECT	AUTH AMOUNT	APPR AMOUNT	% DSGN JAN 90	PAGE
ITALY	SAN VITO AS				490
	ALTER DORMITORY	2,750	2,750	75	491
	BASE TOTAL:	2,750	2,750		
	COUNTRY TOTAL:	3,810	3,810		
JAPAN	KADENA AB				493
	CONTROL TOWER CAB	770	770	90	671
	FIRE PROTECTION - KC-135 MAINTENANCE FACILITIES	2,950	2,950	60	494
	BASE TOTAL:	3,720	3,720		
	COUNTRY TOTAL:	3,720	3,720		
KOREA	KUNSAN AB				496
	SQUADRON OPERATIONS FACILITY	6,000	6,000	70	498
	AIRCRAFT FUEL SYSTEMS REPAIR DOCK	3,300	3,300	100	500
	ADD TO AND ALTER PHYSICAL FITNESS COMLEX	5,300	5,300	35	503
	UPGRADE ELECTRICAL DISTRIBUTION SYSTEM, PHASE III	5,700	5,700	100	506
	BASE TOTAL:	20,300	20,300		
	OSAN AB				508
	REPLACE TAXIWAY PAVEMENT, PHASE I	5,500	5,500	60	510
	FIRE STATION	4,650	4,650	60	513
	BASE OPERATIONS FACILITY	1,950	1,950	60	515

DEPARTMENT OF THE AIR FORCE
INDEX - PART I
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1991
(DOLLARS IN THOUSANDS)
OUTSIDE THE UNITED STATES

STATE/ COUNTRY	INSTALLATION AND PROJECT	AUTH AMOUNT	APPR AMOUNT	% DSGN JAN 90	PAGE
KOREA	SQUADRON OPERATIONS/SENSOR MAINTENANCE FACILITIES	1,700	1,700	35	518
	AIRCRAFT SUPPORT EQUIPMENT SHOP/STORAGE FACILITY	1,800	1,800	60	520
	BASE TOTAL:	15,600	15,600		
	COUNTRY TOTAL:	35,900	35,900		
PHILIPPINES	CLARK AB				522
	CONTROL TOWER CAB	710	710	90	673
	BASE TOTAL:	710	710		
	COUNTRY TOTAL:	710	710		
SEYCHELLES ISLANDS	MAHE AS				524
	SATELLITE CONTROL FACILITY	4,600	4,600	50	525
	BASE TOTAL:	4,600	4,600		
	COUNTRY TOTAL:	4,600	4,600		
TURKEY	INCIRLIK AB				528
	ALTER MUNITIONS STORAGE FACILITY	3,700	3,700	100	529
	WATER DISTRIBUTION MAINS	1,100	1,100	100	531
	BASE TOTAL:	4,800	4,800		
	PIRINCLIK AB				533
	DORMITORY	1,250	1,250	70	534
	BASE TOTAL:	1,250	1,250		
	COUNTRY TOTAL:	6,050	6,050		

DEPARTMENT OF THE AIR FORCE
INDEX - PART I
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1991
(DOLLARS IN THOUSANDS)
OUTSIDE THE UNITED STATES

STATE/ COUNTRY	INSTALLATION AND PROJECT	AUTH AMOUNT	APPR AMOUNT	% DSGN JAN 90	PAGE
UNITED KINGDOM	RAF ALCONBURY				537
	ALTER DORMITORIES	4,100	4,100	100	538
	ADD TO AND ALTER PHYSICAL FITNESS CENTER	3,200	3,200	100	540
	BASE TOTAL:	7,300	7,300		
	RAF BENTWATERS				542
	CENTRAL POST OFFICE	1,500	1,500	100	543
	BASE TOTAL:	1,500	1,500		
	RAF CHICKSANDS				545
	SATELLITE COMMUNICATIONS TERMINAL	12,200	12,200	65	546
	BASE TOTAL:	12,200	12,200		
	HIGH WYCOMBE AS				548
	DORMITORY	4,200	4,200	100	549
	BASE TOTAL:	4,200	4,200		
	RAF LAKENHEATH				551
	ALTER MUNITIONS STORAGE FACILITY	4,950	4,950	100	552
	ALTER DORMITORIES	3,155	3,155	50	554
	BASE TOTAL:	8,105	8,105		
	RAF MILDENHALL				556
	ADD TO AND ALTER PHYSICAL FITNESS CENTER	1,100	1,100	70	557
	BASE TOTAL:	1,100	1,100		
	COUNTRY TOTAL:	34,405	34,405		

DEPARTMENT OF THE AIR FORCE
INDEX - PART I
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1991
(DOLLARS IN THOUSANDS)
OUTSIDE THE UNITED STATES

STATE/ COUNTRY	INSTALLATION AND PROJECT	AUTH AMOUNT	APPR AMOUNT	% DSGN JAN 90	PAGE
VARIOUS LOCATIONS	CLASSIFIED LOCATION				560
	F-15E FIELD TRAINING FACILITY	2,400	2,400	45	563
	F-15E CONVENTIONAL MUNITIONS MAINTENANCE FACILITY	2,400	2,400	60	561
	BASE TOTAL:	4,800	4,800		
	CLASSIFIED LOCATION				565
	TACTICAL INTELLIGENCE CENTER	3,000	3,000	35	566
	BASE TOTAL:	3,000	3,000		
	CLASSIFIED LOCATION				568
	OPERATIONS FACILITY	14,243	14,243	100	569
	BASE TOTAL:	14,243	14,243		
	COUNTRY TOTAL:	22,043	22,043		
WORLDWIDE CLASSIFIED	CLASSIFIED LOCATION				571
	VARIOUS FACILITIES	3,800	3,800	100	572
	BASE TOTAL:	3,800	3,800		
	CLASSIFIED LOCATION				574
	VARIOUS FACILITIES	4,000	4,000	60	575
	BASE TOTAL:	4,000	4,000		
	CLASSIFIED LOCATION				577
	VARIOUS FACILITIES	4,000	4,000	60	578
	BASE TOTAL:	4,000	4,000		
	CLASSIFIED LOCATION				580
	VARIOUS FACILITIES	2,600	2,600	60	581
	BASE TOTAL:	2,600	2,600		
	WORLD WIDE TOTAL:	14,400	14,400		

26-503 O—90——2

DEPARTMENT OF THE AIR FORCE
INDEX - PART I
MILITARY CONSTRUCTION PROGRAM FISCAL YEAR 1991
(DOLLARS IN THOUSANDS)
WORLD WIDE

STATE/ COUNTRY	INSTALLATION AND PROJECT	AUTH AMOUNT	APPR AMOUNT	% DSGN JAN 90	PAGE
	OUTSIDE UNITED STATES TOTAL:	184,059	196,059		
VARIOUS LOCATIONS	VARIOUS LOCATIONS				583
	MINOR CONSTRUCTION	10,272	10,272	N/A	586
	PLANNING AND DESIGN	107,741	107,741	N/A	585
	BASE TOTAL:	118,013	118,013		
	VARIOUS LOCATIONS TOTAL:	118,013	118,013		
	TOTAL PROGRAM:	1,340,700	1,376,200		

NOTE: $1,340,700,000 IS THE TOTAL AMOUNT OF PROJECTS TO BE AUTHORIZED. "AUTHORIZATION FOR APPROPRIATION" IS $1,364,200,000. SEE SUMMARY SHEET IN FRONT OF BOOK FOR RECONCILLIATION.

DEFINITIONS

NEW MISSION PROJECTS - These projects support the deployment and beddown of new weapons systems, new or additional aircraft, missile, and space programs and support of new equipment such as radars, communications, computers, satellite tracking and electronic security. Also included are projects that support readiness initiatives such as Centcom activities in support of Southwest Asia, Air Base Operatability, Anti-Terrorism, Chemical/Biological Defense and WRM Augmentation. New mission projects all support new programs and initiatives that do not revitalize the existing physical plant. The projects support new and additional requirements.

CURRENT MISSION PROJECTS - These projects revitalize the existing facility plant by replacement or upgrading existing facilities and by alleviating long standing deficiencies not generated by new missions or equipment.

FY 91	($000)
NEW MISSION	$831,146
CURRENT MISSION	$545,054
TOTAL	$1,376,200

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DEPARTMENT OF THE AIR FORCE
(CURRENT MISSION/NEW MISSION REPORT FOR FY 91)
BY: STATE/BASE

STATE/COUNTRY NAME	BASE NAME	PROJECT TITLE (DD 1391)	COST --($000)--	CM/NM
ALABAMA	GUNTER AFB	ADD TO AND ALTER SENIOR NCO ACADEMY	8,200	C
ALABAMA	GUNTER AFB	STUDENT DORMITORY	8,800	C
ALABAMA	GUNTER AFB	STUDENT DORMITORY	3,100	C
ALABAMA	MAXWELL AFB	SECURITY POLICE OPERATIONS FACILITY	1,750	C
ALABAMA	MAXWELL AFB	COMMUNICATIONS GROUP COMPLEX	5,300	C
ALABAMA	MAXWELL AFB	JUDGE ADVOCATE GENERAL ACADEMIC FACILITY	7,700	C
ALABAMA	MAXWELL AFB	ALTER STUDENT DORMITORIES	2,750	C
ALABAMA	MAXWELL AFB	STUDENT DORMITORY	5,000	C
		STATE TOTAL:	42,600	
ALASKA	CLEAR AFS	ALTER DORMITORY, PHASE II	5,000	C
ALASKA	EIELSON AFB	UPGRADE SEWAGE TREATMENT PLANT	12,400	C
ALASKA	GALENA AIRPORT	VEHICLE MAINTENANCE FACILITY	8,700	C
ALASKA	KING SALMON AIRPORT	VEHICLE REFUELING SHOP	2,500	C
ALASKA	SHEMYA AFB	VEHICLE MAINTENANCE FACILITY	7,700	C

DEPARTMENT OF THE AIR FORCE
(CURRENT MISSION/NEW MISSION REPORT FOR FY 91)
BY: STATE/BASE

STATE/COUNTRY NAME	BASE NAME	PROJECT TITLE (DD 1391)	COST --($000)--	CM/NM
ALASKA	SHEMYA AFB	BASE ENGINEER MAINTENANCE SHOP	3,700	C
ALASKA	SHEMYA AFB	ADD TO AND UPGRADE BASE ENGINEER COMPLEX	6,300	C
ALASKA	SHEMYA AFB	RENOVATE SUPPORT FACILITY	15,400	C
ALASKA	SHEMYA AFB	ALTER DORMITORY	7,800	C
ALASKA	SHEMYA AFB	SEWAGE TREATMENT PLANT	2,700	C
ALASKA	SHEMYA AFB	UPGRADE BASE ROADS	1,400	C
ALASKA	SHEMYA AFB	FLIGHTLINE ACCESS ROAD	2,400	C
ALASKA	VARIOUS LOCATIONS	OTH-B NON-TECHNICAL SUPPORT FACILITIES	11,000	N
		STATE TOTAL:	87,000	
ARIZONA	LUKE AFB	LAND ACQUISITION	1,800	C
ARIZONA	WILLIAMS AFB	AUXILIARY FIELD/LAND ACQUISITION	5,500	C
ARIZONA	WILLIAMS AFB	ADD TO AND ALTER FLIGHT SIMULATOR	400	N
ARIZONA	WILLIAMS AFB	SPECIALIZED UPT MAINTENANCE AND OPERATIONS SUPPORT	900	N
ARIZONA	WILLIAMS AFB	BASE ENGINEER COMPLEX	2,350	C

DEPARTMENT OF THE AIR FORCE
(CURRENT MISSION/NEW MISSION REPORT FOR FY 91)
BY: STATE/BASE

STATE/COUNTRY NAME	BASE NAME	PROJECT TITLE (DD 1391)	COST ($000)	CM/NM
		STATE TOTAL:	10,950	
CALIFORNIA	BEALE AFB	DORMITORY	6,300	C
CALIFORNIA	CASTLE AFB	SECURITY POLICE OPERATIONS FACILITY	3,000	C
CALIFORNIA	EDWARDS AFB	RENOVATE FLIGHT TEST AUDIO-VISUAL SUPPORT FACILITY	5,500	C
CALIFORNIA	EDWARDS AFB	JET ENGINE MAINTENANCE FACILITY	11,600	C
CALIFORNIA	MARCH AFB	TROOP SUBSISTENCE WAREHOUSE	1,050	C
CALIFORNIA	MCCLELLAN AFB	ADD TO AND ALTER DEPOT CORROSION CONTROL COMPLEX	11,200	C
CALIFORNIA	SIERRA ARMY DEPOT	STUDENT DORMITORY	3,650	C
CALIFORNIA	TRAVIS AFB	ALTER CONSOLIDATED SUPPORT CENTER, PHASE II	5,800	C
CALIFORNIA	TRAVIS AFB	DINING FACILITY	5,000	C
CALIFORNIA	VANDENBERG AFB	TITAN IV LAUNCH COMPLEX, PHASE I	19,200	N
CALIFORNIA	VANDENBERG AFB	LAND ACQUISITION OPTION	10,000	N
		STATE TOTAL:	82,300	
COLORADO	FALCON AFS	MILSTAR COMMUNICATIONS GROUND TERMINAL	710	N

DEPARTMENT OF THE AIR FORCE
(CURRENT MISSION/NEW MISSION REPORT FOR FY 91)
BY: STATE/BASE

STATE/COUNTRY NAME	BASE NAME	PROJECT TITLE (DD 1391)	COST --($000)--	CM/NM
COLORADO	PETERSON AFB	MILSTAR COMMUNICATION GROUND TERMINAL	1,350	N
COLORADO	PETERSON AFB	ADD TO AND ALTER DORMITORY, PHASE I	2,700	C
		STATE TOTAL:	4,760	
FLORIDA	AVON PARK RANGE	DORMITORY	700	C
FLORIDA	CAPE CANAVERAL AFS	CHEMICAL TESTING LABORATORY	2,400	C
FLORIDA	EGLIN AFB	MISSILE MAINTENANCE FACILITY	1,900	C
FLORIDA	EGLIN AFB	AIRCRAFT PARTS WAREHOUSE	2,800	C
FLORIDA	HOMESTEAD AFB	JET FUEL STORAGE	2,400	N
FLORIDA	HOMESTEAD AFB	ALTER DORMITORIES	5,500	C
FLORIDA	MACDILL AFB	UPGRADE RUNWAY	8,900	C
FLORIDA	MACDILL AFB	ADD TO U.S. CENTRAL COMMAND HEADQUARTERS	3,350	N
		STATE TOTAL:	27,950	
GEORGIA	MOODY AFB	ALTER DORMITORIES	4,400	C

DEPARTMENT OF THE AIR FORCE
(CURRENT MISSION/NEW MISSION REPORT FOR FY 91)
BY: STATE/BASE

STATE/COUNTRY NAME	BASE NAME	PROJECT TITLE (DD 1391)	COST --($000)--	CM/NM
GEORGIA	ROBINS AFB	ADD TO AND ALTER INTEGRATION SUPPORT FACILITY	8,300	C
GEORGIA	ROBIØS AFB	ADVANCED MICROELECTRONICS FACILITY	9,400	C
GEORGIA	ROBINS AFB	COMBAT COMMUNICATIONS EQUIPMENT MAINTENANCE FACILITY	3,500	C
		STATE TOTAL:	25,600	
HAWAII	HICKAM AFB	POL OPERATIONS FACILITY	1,000	C
HAWAII	HICKAM AFB	VEHICLE OPERATIONS/MAINTENANCE FACILITY	1,300	C
HAWAII	HICKAM AFB	DORMITORY	6,100	C
HAWAII	HICKAM AFB	ADD TO CHILD DEVELOPMENT CENTER	770	C
HAWAII	HICKAM AFB	FIRE PROTECTION - MAINTENANCE HANGAR	2,250	C
HAWAII	WHEELER AFB	COMBAT ARMS TRAINING AND MAINTENANCE FACILITIES	1,400	C
HAWAII	WHEELER AFB	ADD TO AND ALTER GROUP OPERATIONS FACILITY	2,100	C
		STATE TOTAL:	14,920	
IDAHO	MOUNTAIN HOME AFB	ADD TO AND ALTER SQUADRON OPERATIONS FACILITY	1,350	C

DEPARTMENT OF THE AIR FORCE
(CURRENT MISSION/NEW MISSION REPORT FOR FY 91)
BY: STATE/BASE

STATE/COUNTRY NAME	BASE NAME	PROJECT TITLE (DD 1391)	COST --($000)--	CM/NM
		STATE TOTAL:	1,350	
ILLINOIS	SCOTT AFB	CHILD DEVELOPMENT CENTER	2,160	C
		STATE TOTAL:	2,160	
LOUISIANA	BARKSDALE AFB	ALTER EXPLOSIVE CARGO PAD ACCESS TAXIWAY	1,600	C
LOUISIANA	BARKSDALE AFB	PEACEKEEPER-GARRISON FACILITIES	56,150	N
LOUISIANA	BARKSDALE AFB	PEACEKEEPER-MISSILE OPERATIONS FACILITY	3,050	N
LOUISIANA	BARKSDALE AFB	PEACEKEEPER-TRAINING TRAIN SHELTER	2,800	N
LOUISIANA	BARKSDALE AFB	PEACEKEEPER-INTEGRATED MAINTENANCE FACILITY	2,150	N
LOUISIANA	BARKSDALE AFB	PEACEKEEPER-ADD TO AND ALTER COMMUNICATIONS FACILITY	730	N
LOUISIANA	BARKSDALE AFB	MUNITIONS SUPPORT EQUIPMENT STORAGE FACILITY	630	N
LOUISIANA	BARKSDALE AFB	PEACEKEEPER-ROAD, RAILROAD AND UTILITIES	7,600	N
		STATE TOTAL:	74,710	
MAINE	BANGOR ANGB	SQUADRON SUPPORT FACILITY	970	C

DEPARTMENT OF THE AIR FORCE
(CURRENT MISSION/NEW MISSION REPORT FOR FY 91)
BY: STATE/BASE

STATE/COUNTRY NAME	BASE NAME	PROJECT TITLE (DD 1391)	COST --($000)--	CM/NM
MAINE	LORING AFB	MUNITIONS SUPPORT EQUIPMENT STORAGE FACILITY	830	N
		STATE TOTAL:	1,800	
MARYLAND	ANDREWS AFB	FIRE/CRASH RESCUE STATION	1,750	C
MARYLAND	ANDREWS AFB	ADD TO AND ALTER COMBAT ARMS TRAINING FACILITY	1,300	C
MARYLAND	FORT GEORGE G. MEADE	DEFENSE COURIER STATION	1,800	C
		STATE TOTAL:	4,850	
MASSACHUSETTS	HANSCOM AFB	ELECTROMAGNETIC TECHNOLOGY RESEARCH LABORATORY	3,800	C
		STATE TOTAL:	3,800	
MICHIGAN	K. I. SAWYER AFB	CONTROL TOWER	2,700	C
MICHIGAN	WURTSMITH AFB	ADD TO AND ALTER CHILD DEVELOPMENT CENTER	960	C
		STATE TOTAL:	3,660	

DEPARTMENT OF THE AIR FORCE
(CURRENT MISSION/NEW MISSION REPORT FOR FY 91)
BY: STATE/BASE

STATE/COUNTRY NAME	BASE NAME	PROJECT TITLE (DD 1391)	COST --($000)--	CM/NM
MISSISSIPPI	COLUMBUS AFB	ADD TO AND ALTER FLIGHT SIMULATOR	400	N
		STATE TOTAL:	400	
MISSOURI	WHITEMAN AFB	B-2 IMPACT AID	1,000	N
MISSOURI	WHITEMAN AFB	B-2 AIRCRAFT ACCESS APRON AND TAXIWAY UPGRADE	7,900	N
MISSOURI	WHITEMAN AFB	B-2 HYDRANT FUEL/AIRCRAFT SUPPORT SYSTEMS	12,000	N
MISSOURI	WHITEMAN AFB	B-2 AIRCRAFT MAINTENANCE DOCKS	8,700	N
MISSOURI	WHITEMAN AFB	B-2 WEAPONS RECEIVING AND PROCESSING FACILITY	1,700	N
MISSOURI	WHITEMAN AFB	B-2 AVIONICS SHOP	5,000	N
MISSOURI	WHITEMAN AFB	B-2 SURVIVAL EQUIPMENT SHOP	1,000	N
MISSOURI	WHITEMAN AFB	B-2 WEAPONS STORAGE IGLOOS	5,600	N
MISSOURI	WHITEMAN AFB	B-2 HAZARDOUS MATERIAL STORAGE	1,600	N
MISSOURI	WHITEMAN AFB	B-2 WEAPONS STORAGE AREA SUPPLY WAREHOUSE	800	N
MISSOURI	WHITEMAN AFB	B-2 DORMITORY	6,500	N

DEPARTMENT OF THE AIR FORCE
(CURRENT MISSION/NEW MISSION REPORT FOR FY 91)
BY: STATE/BASE

STATE/COUNTRY NAME	BASE NAME	PROJECT TITLE (DD 1391)	COST --($000)--	CM/NM
MISSOURI	WHITEMAN AFB	B-2-ADD TO AND ALTER BASE LIBRARY/EDUCATION CENTER	3,500	N
MISSOURI	WHITEMAN AFB	B-2 ADD TO AND ALTER CHAPEL/ COMMUNITY ACTIVITY FACILITY	1,700	N
MISSOURI	WHITEMAN AFB	B-2 ADD TO AND ALTER PHYSICAL FITNESS CENTER	3,600	N
MISSOURI	WHITEMAN AFB	B-2 ADD TO AND ALTER CHILD DEVELOPMENT CENTER	750	C
MISSOURI	WHITEMAN AFB	B-2 ADD TO AND ALTER UTILITIES	9,400	N
MISSOURI	WHITEMAN AFB	B-2 DEFENSE ACCESS ROADS	9,000	N
MISSOURI	WHITEMAN AFB	B-2 UPGRADE BASE ROADS	4,000	N
MISSOURI	WHITEMAN AFB	B-2 MUNITIONS CONVOY ROADS	6,000	N
MISSOURI	WHITEMAN AFB	B-2 WEAPONS STORAGE AREA SECURITY FENCING	5,900	N
MISSOURI	WHITEMAN AFB	FIRE PROTECTION SYSTEM	750	C
		STATE TOTAL:	96,400	
NEBRASKA	OFFUTT AFB	ALTER PHYSICAL FITNESS CENTER AND FIELD HOUSE	2,600	C
		STATE TOTAL:	2,600	
NEVADA	INDIAN SPRINGS AUX FLD	MUNITIONS LOADING/REVETMENTS, PHASE II	2,550	C

DEPARTMENT OF THE AIR FORCE
(CURRENT MISSION/NEW MISSION REPORT FOR FY 91)
BY: STATE/BASE

STATE/COUNTRY NAME	BASE NAME	PROJECT TITLE (DD 1391)	COST --($000)--	CM/NM
NEVADA	NELLIS AFB	PARARESCUE FACILITY	1,050	N
NEVADA	NELLIS AFB	SQUADRON OPERATIONS FACILITY	1,000	N
NEVADA	NELLIS AFB	MAINTENANCE HANGAR	5,000	N
NEVADA	NELLIS AFB	ADD TO AND ALTER ELECTRICAL DISTRIBUTION SYSTEM	5,200	C
NEVADA	NELLIS AFB	BASE SECURITY FENCING	270	C
		STATE TOTAL:	15,070	
NEW JERSEY	MCGUIRE AFB	ADD TO FLIGHT SIMULATOR FACILITY	3,000	N
NEW JERSEY	MCGUIRE AFB	ALTER DORMITORIES	4,850	C
		STATE TOTAL:	7,850	
NEW MEXICO	HOLLOMAN AFB	ALTER DORMITORY	2,700	C
NEW MEXICO	HOLLOMAN AFB	SECURITY IMPROVEMENTS	310	C
NEW MEXICO	KIRTLAND AFB	ADD TO AND ALTER HELICOPTER TRAINING AREA	2,650	C
NEW MEXICO	KIRTLAND AFB	ALTER DORMITORIES	1,550	C

DEPARTMENT OF THE AIR FORCE
(CURRENT MISSION/NEW MISSION REPORT FOR FY 91)
BY: STATE/BASE

STATE/COUNTRY NAME	BASE NAME	PROJECT TITLE (DD 1391)	COST --($000)--	CM/NM
		STATE TOTAL:	7,210	
NORTH CAROLINA	SEYMOUR JOHNSON AFB	REPAIR TAXIWAY	1,052	C
NORTH CAROLINA	SEYMOUR JOHNSON AFB	BASE FORMS AND PUBLICATIONS WAREHOUSE	600	C
NORTH CAROLINA	SEYMOUR JOHNSON AFB	FIRE PROTECTION SYSTEMS	850	C
		STATE TOTAL:	2,502	
NORTH DAKOTA	GRAND FORKS AFB	PEACEKEEPER-GARRISON FACILITIES	50,000	N
NORTH DAKOTA	GRAND FORKS AFB	PEACEKEEPER-TRAINING TRAIN SHELTER	3,000	N
NORTH DAKOTA	GRAND FORKS AFB	PEACEKEEPER-MISSILE OPERATIONS INTEGRATED MAINTENANCE FAC	5,500	N
NORTH DAKOTA	GRAND FORKS AFB	ADD TO AND ALTER MISSILE MAINTENANCE/SUPPORT FACILITY	4,700	C
NORTH DAKOTA	GRAND FORKS AFB	ADD TO AND ALTER TRANSPORTATION COMPLEX	4,150	C
NORTH DAKOTA	GRAND FORKS AFB	PEACEKEEPER-ADD TO AND ALTER COMMUNICATIONS MAINTENANCE FAC	800	N
NORTH DAKOTA	GRAND FORKS AFB	PEACEKEEPER-ROAD, RAILROAD AND UTILITIES	7,900	N
NORTH DAKOTA	GRAND FORKS AFB	PEACEKEEPER-LAND ACQUISITION	1,000	N
NORTH DAKOTA	MINOT AFB	ADD TO AND ALTER CHILD DEVELOPMENT CENTER	3,600	C

DEPARTMENT OF THE AIR FORCE
(CURRENT MISSION/NEW MISSION REPORT FOR FY 91)
BY: STATE/BASE

STATE/COUNTRY NAME	BASE NAME	PROJECT TITLE (DD 1391)	COST --($000)--	CM/NM
		STATE TOTAL:	80,650	
OHIO	NEWARK AFB	PEACEKEEPER-GUIDANCE AND CONTROL FACILITY	5,100	N
OHIO	WRIGHT-PATTERSON AFB	FOREIGN MATERIEL EXPLOITATION FACILITY	4,650	N
OHIO	WRIGHT-PATTERSON AFB	AFIT PROFESSIONAL AND TECHNICAL EDUCATION FACILITY	5,500	C
		STATE TOTAL:	15,250	
OKLAHOMA	ALTUS AFB	C-17 SHORTFIELD ASSAULT STRIP	9,000	N
OKLAHOMA	ALTUS AFB	C-17 ADD TO FLIGHT SIMULATOR FACILITY	7,100	N
OKLAHOMA	ALTUS AFB	ALTER FLIGHT SIMULATOR FACILITY	800	C
OKLAHOMA	ALTUS AFB	C-17 FIELD TRAINING FACILITY	4,800	N
OKLAHOMA	TINKER AFB	B-2 ADD TO AND ALTER DEPOT MAINTENANCE HANGAR	12,100	N
OKLAHOMA	TINKER AFB	B-2 ADD TO AND ALTER COMPOSITE REPAIR FACILITY	5,700	N
OKLAHOMA	TINKER AFB	CONSOLIDATED FUEL CONTROL TEST FACILITY	13,600	C
OKLAHOMA	TINKER AFB	SYSTEMS ENGINEERING FACILITY	650	C

DEPARTMENT OF THE AIR FORCE
(CURRENT MISSION/NEW MISSION REPORT FOR FY 91)
BY: STATE/BASE

STATE/COUNTRY NAME	BASE NAME	PROJECT TITLE (DD 1391)	COST --($000)--	CM/NM
OKLAHOMA	TINKER AFB	LOGISTICAL SYSTEMS OPERATIONS CENTER/LAND ACQUISITION	13,200	C
OKLAHOMA	TINKER AFB	UPGRADE ELECTRICAL DISTRIBUTION SYSTEM	3,500	C
OKLAHOMA	TINKER AFB	B-2 ADD TO HANGAR FIRE PROTECTION SYSTEM	3,600	N
OKLAHOMA	TINKER AFB	AWACS AIRCRAFT FIRE PROTECTION	2,750	C
OKLAHOMA	VANCE AFB	ADD TO AND ALTER FLIGHT SIMULATOR	400	N
		STATE TOTAL:	77,200	
SOUTH CAROLINA	CHARLESTON AFB	SECURITY POLICE OPERATIONS FACILITY	1,550	C
SOUTH CAROLINA	CHARLESTON AFB	PARACHUTE DRYING TOWER	500	C
SOUTH CAROLINA	CHARLESTON AFB	COMMAND POST/BASE OPERATIONS FACILITY	2,250	C
SOUTH CAROLINA	CHARLESTON AFB	C-17 ALTER AIRCRAFT MAINTENANCE FACILITIES	7,900	N
SOUTH CAROLINA	CHARLESTON AFB	C-17 ALTER ENGINE INSPECTION AND REPAIR FACILITY	840	N
SOUTH CAROLINA	CHARLESTON AFB	VEHICLE OPERATIONS FACILITY	1,050	C
		STATE TOTAL:	14,090	
SOUTH DAKOTA	ELLSWORTH AFB	UPGRADE ELECTRICAL DISTRIBUTION SYSTEM	13,150	C

DEPARTMENT OF THE AIR FORCE
(CURRENT MISSION/NEW MISSION REPORT FOR FY 91)
BY: STATE/BASE

STATE/COUNTRY NAME	BASE NAME	PROJECT TITLE (DD 1391)	COST --($000)--	CM/NM
		STATE TOTAL:	13,150	
TENNESSEE	ARNOLD EDC	LARGE ROCKET TEST FACILITY, (J6) PHASE III	109,300	N
		STATE TOTAL:	109,300	
TEXAS	BROOKS AFB	BASE ENGINEER COMPLEX	4,100	C
TEXAS	CARSWELL AFB	HYDRANT FUELING SYSTEM	10,700	C
TEXAS	CARSWELL AFB	AIRCRAFT PARKING APRON LIGHTING	1,350	C
TEXAS	CARSWELL AFB	ELECTRIC SUBSTATION ACQUISITION (PIF)	566	C
TEXAS	DYESS AFB	RUNWAY APPROACH LIGHTING	1,050	C
TEXAS	DYESS AFB	AIRCRAFT CORROSION CONTROL FACILITY	4,100	C
TEXAS	DYESS AFB	ADD TO AND ALTER VEHICLE MAINTENANCE SHOP	2,400	C
TEXAS	GOODFELLOW AFB	SECURITY POLICE OPERATIONS FACILITY	980	C
TEXAS	KELLY AFB	AIR FORCE SERVICE INFORMATION AND NEWS CENTER FACILITY	4,000	C
TEXAS	KELLY AFB	ADD TO AND ALTER DEPOT CORROSION CONTROL FACILITY	6,300	C
TEXAS	LACKLAND AFB	FIRE STATION	1,350	C

DEPARTMENT OF THE AIR FORCE
(CURRENT MISSION/NEW MISSION REPORT FOR FY 91)
BY: STATE/BASE

STATE/COUNTRY NAME	BASE NAME	PROJECT TITLE (DD 1391)	COST --($000)--	CM/NM
TEXAS	LACKLAND AFB	BASE ENGINEER COMPLEX	8,000	C
TEXAS	LACKLAND AFB	DINING FACILITY	4,000	C
TEXAS	LACKLAND AFB	UPGRADE SEWER SYSTEM	5,000	C
TEXAS	LACKLAND AFB	BASE ROADS	4,150	C
TEXAS	LAUGHLIN AFB	ADD TO AND ALTER FLIGHT SIMULATOR	400	N
TEXAS	LAUGHLIN AFB	SPECIALIZED UPT MAINTENANCE SUPPORT	970	N
TEXAS	LAUGHLIN AFB	TROOP SUBSISTENCE WAREHOUSE	450	C
TEXAS	RANDOLPH AFB	SPECIALIZED UPT MAINTENANCE SUPPORT	1,750	N
TEXAS	REESE AFB	SPECIALIZED UPT MAINTENANCE HANGAR	4,100	N
TEXAS	REESE AFB	TRAFFIC MANAGEMENT FACILITY	990	C
TEXAS	SHEPPARD AFB	AIRCRAFT CORROSION CONTROL FACILITY	550	N
TEXAS	SHEPPARD AFB	BASE ENGINEER COMPLEX	6,800	C
TEXAS	SHEPPARD AFB	WING OPERATIONS FACILITY	1,050	N
		STATE TOTAL:	75,106	

DEPARTMENT OF THE AIR FORCE
(CURRENT MISSION/NEW MISSION REPORT FOR FY 91)
BY: STATE/BASE

STATE/COUNTRY NAME	BASE NAME	PROJECT TITLE (DD 1391)	COST --($000)--	CM/NM
UTAH	HILL AFB	PEACEKEEPER STAGE STORAGE FACILITY	3,250	N
UTAH	HILL AFB	PEACEKEEPER ORDNANCE STORAGE	3,250	N
UTAH	HILL AFB	DEPOT WAREHOUSE	16,000	C
		STATE TOTAL:	22,500	
VIRGINIA	LANGLEY AFB	SOUND SUPPRESSOR SUPPORT	600	N
		STATE TOTAL:	600	
WASHINGTON	FAIRCHILD AFB	PEACEKEEPER-GARRISON FACILITIES	73,000	N
WASHINGTON	FAIRCHILD AFB	PEACEKEEPER-TRAINING TRAIN SHELTER	3,750	N
WASHINGTON	FAIRCHILD AFB	ALTER AIRCRAFT MAINTENANCE COMPLEX	9,600	C
WASHINGTON	FAIRCHILD AFB	PEACEKEEPER-MISSILE OPERATIONS MAINTENANCE FACILITY	6,900	N
WASHINGTON	FAIRCHILD AFB	PEACEKEEPER-ADD TO AND ALTER COMMUNICATIONS MAINT FACILITY	990	N
WASHINGTON	FAIRCHILD AFB	ADD TO AND ALTER AIRCRAFT PARKING APRON LIGHTING	1,600	C
WASHINGTON	FAIRCHILD AFB	PEACEKEEPER-ROAD, RAILROAD AND UTILITIES	11,200	N

DEPARTMENT OF THE AIR FORCE
(CURRENT MISSION/NEW MISSION REPORT FOR FY 91)
BY: STATE/BASE

STATE/COUNTRY NAME	BASE NAME	PROJECT TITLE (DD 1391)	COST --($000)--	CM/NM
WASHINGTON	FAIRCHILD AFB	PEACEKEEPER-LAND ACQUISITION	1,000	N
WASHINGTON	MCCHORD AFB	SQUADRON OPERATIONS FACILITY	5,200	C
		STATE TOTAL:	113,240	
WYOMING	F. E. WARREN AFB	ADD TO AND ALTER TRANSPORTATION COMPLEX	4,400	C
WYOMING	F. E. WARREN AFB	PEACEKEEPER-DORMITORY	5,200	N
		STATE TOTAL:	9,600	
VARIOUS LOCATIONS	CLASSIFIED LOCATIONS	ALTER SQUADRON OPERATIONS FACILITY	2,000	N
VARIOUS LOCATIONS	CLASSIFIED LOCATION	FLIGHT SIMULATION TRAINING	3,400	N
VARIOUS LOCATIONS	CLASSIFIED LOCATIONS	ADD TO AND ALTER FUEL SYSTEMS MAINTENANCE DOCK	2,200	N
VARIOUS LOCATIONS	CLASSIFIED LOCATIONS	CONVENTIONAL MUNITIONS SHOP	950	N
VARIOUS LOCATIONS	CLASSIFIED LOCATION	ALTER AVIONICS SHOP	850	N
VARIOUS LOCATIONS	CLASSIFIED LOCATIONS	MUNITIONS STORAGE FACILITY	1,600	N
		STATE TOTAL:	11,000	

DEPARTMENT OF THE AIR FORCE
(CURRENT MISSION/NEW MISSION REPORT FOR FY 91)
BY: STATE/BASE

STATE/COUNTRY NAME	BASE NAME	PROJECT TITLE (DD 1391)	COST --($000)--	CM/NM
		INSIDE UNITED STATES TOTAL:	1,062,128	
ANTIGUA	ANTIGUA AS	INSTRUMENTATION FACILITY	8,200	N
		COUNTRY TOTAL:	8,200	
CANADA	VARIOUS LOCATIONS	FORWARD OPERATING LOCATIONS	18,300	N
		COUNTRY TOTAL:	18,300	
GERMANY	BITBURG AB	ADD TO PHYSICAL FITNESS CENTER	2,000	C
GERMANY	HAHN AB	UPGRADE WATER STORAGE AND DISTRIBUTION SYSTEM	4,300	C
GERMANY	MARIENFELDE COMM STA	UPGRADE OPERATIONS FACILITY	1,621	C
GERMANY	RHEIN MAIN AB	COMMUNICATIONS CONTROL CENTER	3,250	C
GERMANY	SPANGDAHLEM AB	UPGRADE SEWAGE TREATMENT PLANT/SEWER SYSTEM	4,350	C
GERMANY	SPANGDAHLEM AB	ADD TO AND ALTER WATER STORAGE AND DISTRIBUTION SYSTEM	4,900	C
		COUNTRY TOTAL:	20,421	

DEPARTMENT OF THE AIR FORCE
(CURRENT MISSION/NEW MISSION REPORT FOR FY 91)
BY: STATE/BASE

STATE/COUNTRY NAME	BASE NAME	PROJECT TITLE (DD 1391)	COST --($000)--	CM/NM
GREENLAND	THULE AB	UPGRADE AIRFIELD PAVEMENTS, PHASE I	6,300	C
		COUNTRY TOTAL:	6,300	
HONDURAS	LA MESA AB	AIRFIELD IMPROVEMENTS	12,600	N
HONDURAS	PALMEROLA (SOTO CANO) AB	C-130 AIRCRAFT APRON	4,600	N
		COUNTRY TOTAL:	17,200	
ITALY	GHEDI AF	ALTER MUNITIONS STORAGE FACILITY	550	N
ITALY	RIMINI AF	ALTER MUNITIONS STORAGE FACILITY	510	N
ITALY	SAN VITO AS	ALTER DORMITORY	2,750	C
		COUNTRY TOTAL:	3,810	
JAPAN	KADENA AB	CONTROL TOWER CAB	770	C
JAPAN	KADENA AB	FIRE PROTECTION - KC-135 MAINTENANCE FACILITIES	2,950	C
		COUNTRY TOTAL:	3,720	

DEPARTMENT OF THE AIR FORCE
(CURRENT MISSION/NEW MISSION REPORT FOR FY 91)
BY: STATE/BASE

STATE/COUNTRY NAME	BASE NAME	PROJECT TITLE (DD 1391)	COST --($000)--	CM/NM
KOREA	KUNSAN AB	SQUADRON OPERATIONS FACILITY	6,000	N
KOREA	KUNSAN AB	AIRCRAFT FUEL SYSTEMS REPAIR DOCK	3,300	C
KOREA	KUNSAN AB	PHYSICAL FITNESS COMPLEX	5,300	C
KOREA	KUNSAN AB	UPGRADE ELECTRICAL DISTRIBUTION SYSTEM, PHASE III	5,700	C
KOREA	OSAN AB	REPLACE TAXIWAY PAVEMENT, PHASE I	5,500	C
KOREA	OSAN AB	FIRE STATION	4,650	C
KOREA	OSAN AB	BASE OPERATIONS FACILITY	1,950	C
KOREA	OSAN AB	SQUADRON OPERATIONS/SENSOR MAINTENANCE FACILITIES	1,700	N
KOREA	OSAN AB	AIRCRAFT SUPPORT EQUIPMENT SHOP/STORAGE FACILITY	1,800	N
		COUNTRY TOTAL:	35,900	
PHILIPPINES	CLARK AB	CONTROL TOWER CAB	710	C
		COUNTRY TOTAL:	710	
SEYCHELLES ISLANDS	MAHE AS	SATELLITE CONTROL FACILITY	4,600	N

DEPARTMENT OF THE AIR FORCE
(CURRENT MISSION/NEW MISSION REPORT FOR FY 91)
BY: STATE/BASE

STATE/COUNTRY NAME	BASE NAME	PROJECT TITLE (DD 1391)	COST --($000)--	CM/NM
		COUNTRY TOTAL:	4,600	
TURKEY	INCIRLIK AB	ALTER MUNITIONS STORAGE FACILITY	3,700	N
TURKEY	INCIRLIK AB	WATER DISTRIBUTION MAINS	1,100	C
TURKEY	PIRINCLIK AB	DORMITORY	1,250	C
		COUNTRY TOTAL:	6,050	
UNITED KINGDOM	RAF ALCONBURY	ALTER DORMITORIES	4,100	C
UNITED KINGDOM	RAF ALCONBURY	ADD TO AND ALTER PHYSICAL FITNESS CENTER	3,200	C
UNITED KINGDOM	RAF BENTWATERS	CENTRAL POST OFFICE	1,500	C
UNITED KINGDOM	RAF CHICKSANDS	SATELLITE COMMUNICATIONS TERMINAL	12,200	N
UNITED KINGDOM	HIGH WYCOMBE AS	DORMITORY	4,200	C
UNITED KINGDOM	RAF LAKENHEATH	ALTER MUNITIONS STORAGE FACILITY	4,950	N
UNITED KINGDOM	RAF LAKENHEATH	ALTER DORMITORIES	3,155	C
UNITED KINGDOM	RAF MILDENHALL	ADD TO AND ALTER PHYSICAL FITNESS CENTER	1,100	C
		COUNTRY TOTAL:	34,405	

DEPARTMENT OF THE AIR FORCE
(CURRENT MISSION/NEW MISSION REPORT FOR FY 91)
BY: STATE/BASE

STATE/COUNTRY NAME	BASE NAME	PROJECT TITLE (DD 1391)	COST ($000)	CM/NM
VARIOUS LOCATIONS	CLASSIFIED LOCATION	F-15E FIELD TRAINING FACILITY	2,400	N
VARIOUS LOCATIONS	CLASSIFIED LOCATION	F-15E CONVENTIONAL MUNITIONS MAINTENANCE FACILITY	2,400	N
VARIOUS LOCATIONS	CLASSIFIED LOCATION	TACTICAL INTELLIGENCE CENTER	3,000	N
VARIOUS LOCATIONS	CLASSIFIED LOCATION	OPERATIONS FACILITY	14,243	N
		COUNTRY TOTAL:	22,043	
WORLDWIDE CLASSIFIED	CLASSIFIED LOCATION	VARIOUS FACILITIES	3,800	N
WORLDWIDE CLASSIFIED	CLASSIFIED LOCATION	VARIOUS FACILITIES	4,000	N
WORLDWIDE CLASSIFIED	CLASSIFIED LOCATION	VARIOUS FACILITIES	4,000	N
WORLDWIDE CLASSIFIED	CLASSIFIED LOCATION	VARIOUS FACILITIES	2,600	N
		COUNTRY TOTAL:	14,400	
		OUTSIDE UNITED STATES TOTAL:	196,059	
VARIOUS LOCATIONS	VARIOUS LOCATIONS	MINOR CONSTRUCTION	10,272	N
VARIOUS LOCATIONS	VARIOUS LOCATIONS	PLANNING AND DESIGN	107,741	N

DEPARTMENT OF THE AIR FORCE
(CURRENT MISSION/NEW MISSION REPORT FOR FY 91)
BY: STATE/BASE

STATE/COUNTRY NAME	BASE NAME	PROJECT TITLE (DD 1391)	COST --($000)--	CM/NM
		TOTAL:	118,013	
		GRAND TOTAL:	1,376,200	

DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM
FY 1991 - INSTALLATION INDEX

INSTALLATION	HOST COMMAND	STATE/COUNTRY	PAGE
ALTUS AFB	MAC	OKLAHOMA	307
ANDREWS AFB	MAC	MARYLAND	184
ANTIGUA AS	SYS	ANTIGUA	452
ARNOLD EDC	SYS	TENNESSEE	348
AVON PARK RANGE	TAC	FLORIDA	111
BANGOR ANGB	TAC	MAINE	182
BARKSDALE AFB	SAC	LOUISIANA	166
BEALE AFB	SAC	CALIFORNIA	68
BITBURG AB	AFE	GERMANY	458
BROOKS AFB	SYS	TEXAS	352
CAPE CANAVERAL AFS	SYS	FLORIDA	112
CARSWELL AFB	SAC	TEXAS	356
CASTLE AFB	SAC	CALIFORNIA	72
CHARLESTON AFB	MAC	SOUTH CAROLINA	640
CLARK AB	PAF	PHILIPPINES	522
CLASSIFIED LOCATION	AFE	OUTSIDE THE U.S.	560
CLASSIFIED LOCATION	AFE	OUTSIDE THE U.S.	565
CLASSIFIED LOCATION	LEE	OUTSIDE THE U.S.	568
CLASSIFIED LOCATION	LEE	WORLDWIDE CLASSIFIED	571
CLASSIFIED LOCATION	LEE	WORLDWIDE CLASSIFIED	574
CLASSIFIED LOCATION	LEE	WORLDWIDE CLASSIFIED	577
CLASSIFIED LOCATION	LEE	WORLDWIDE CLASSIFIED	580
CLASSIFIED LOCATIONS	LEE	INSIDE THE U.S.	442
CLEAR AFS	SPC	ALASKA	21
COLUMBUS AFB	ATC	MISSISSIPPI	202
DYESS AFB	SAC	TEXAS	362
EDWARDS AFB	SYS	CALIFORNIA	76
EGLIN AFB	SYS	FLORIDA	116
EIELSON AFB	AAC	ALASKA	24
ELLSWORTH AFB	SAC	SOUTH DAKOTA	343
F. E. WARREN AFB	SAC	WYOMING	436
FAIRCHILD AFB	SAC	WASHINGTON	417
FALCON AFS	SPC	COLORADO	104
FORT GEORGE G. MEADE	LEE	MARYLAND	190
GALENA AIRPORT	AAC	ALASKA	28
GHEDI AF	AFE	ITALY	488

DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM
FY 1991 - INSTALLATION INDEX

INSTALLATION	HOST COMMAND	STATE/COUNTRY	PAGE
GOODFELLOW AFB	ATC	TEXAS	372
GRAND FORKS AFB	SAC	NORTH DAKOTA	276
GUNTER AFB	AUN	ALABAMA	1
HAHN AB	AFE	GERMANY	462
HANSCOM AFB	SYS	MASSACHUSETTS	194
HICKAM AFB	PAF	HAWAII	146
HIGH WYCOMBE AS	AFE	UNITED KINGDOM	548
HILL AFB	LOG	UTAH	407
HOLLOMAN AFB	TAC	NEW MEXICO	263
HOMESTEAD AFB	TAC	FLORIDA	123
INCIRLIK AB	AFE	TURKEY	528
INDIAN SPRINGS AUX FLD	TAC	NEVADA	247
K. I. SAWYER AFB	SAC	MICHIGAN	197
KADENA AB	PAF	JAPAN	493
KELLY AFB	LOG	TEXAS	373
KING SALMON AIRPORT	AAC	ALASKA	32
KIRTLAND AFB	MAC	NEW MEXICO	266
KUNSAN AB	PAF	KOREA	496
LA MESA AB	TAC	HONDURAS	482
LACKLAND AFB	ATC	TEXAS	381
LANGLEY AFB	TAC	VIRGINIA	416
LAUGHLIN AFB	ATC	TEXAS	363
LORING AFB	SAC	MAINE	183
LUKE AFB	TAC	ARIZONA	60
MACDILL AFB	TAC	FLORIDA	128
MAHE AS	SPC	SEYCHELLES ISLANDS	524
MARCH AFB	SAC	CALIFORNIA	84
MARIENFELDE COMM STATION	AFE	GERMANY	474
MAXWELL AFB	AUN	ALABAMA	8
MCCHORD AFB	MAC	WASHINGTON	433
MCCLELLAN AFB	LOG	CALIFORNIA	87
MCGUIRE AFB	MAC	NEW JERSEY	257
MINOR CONSTRUCTION	LEE	VARIOUS	586
MINOT AFB	SAC	NORTH DAKOTA	293
MOODY AFB	TAC	GEORGIA	133
MOUNTAIN HOME AFB	TAC	IDAHO	159
NELLIS AFB	TAC	NEVADA	250
NEWARK AFB	LOG	OHIO	296

DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM
FY 1991 - INSTALLATION INDEX

INSTALLATION	HOST COMMAND	STATE/COUNTRY	PAGE
OFFUTT AFB	SAC	NEBRASKA	242
OSAN AB	PAF	KOREA	508
PALMEROLA (SOTO CANO) AB	TAC	HONDURAS	485
PETERSON AFB	SPC	COLORADO	105
PIRINCLIK AB	AFE	TURKEY	533
PLANNING AND DESIGN	LEE	VARIOUS	585
RAF ALCONBURY	AFE	UNITED KINGDOM	537
RAF BENTWATERS	AFE	UNITED KINGDOM	542
RAF CHICKSANDS	AFE	UNITED KINGDOM	545
RAF LAKENHEATH	AFE	UNITED KINGDOM	551
RAF MILDENHALL	AFE	UNITED KINGDOM	556
RANDOLPH AFB	ATC	TEXAS	394
REESE AFB	ATC	TEXAS	398
RHEIN MAIN AB	MAC	GERMANY	465
RIMINI AF	AFE	ITALY	489
ROBINS AFB	LOG	GEORGIA	136
SAN VITO AS	AFE	ITALY	490
SCOTT AFB	MAC	ILLINOIS	162
SEYMOUR JOHNSON AFB	TAC	NORTH CAROLINA	273
SHEMYA AFB	AAC	ALASKA	36
SHEPPARD AFB	ATC	TEXAS	401
SIERRA ARMY DEPOT	LEE	CALIFORNIA	91
SPANGDAHLEM AB	AFE	GERMANY	469
THULE AB	SPC	GREENLAND	478
TINKER AFB	LOG	OKLAHOMA	314
TRAVIS AFB	MAC	CALIFORNIA	94
VANCE AFB	ATC	OKLAHOMA	332
VANDENBERG AFB	SAC	CALIFORNIA	100
VARIOUS LOCATIONS	AAC	ALASKA	57
VARIOUS LOCATIONS	TAC	CANADA	456
WHEELER AFB	PAF	HAWAII	153
WHITEMAN AFB	SAC	MISSOURI	203
WILLIAMS AFB	ATC	ARIZONA	62
WRIGHT-PATTERSON AFB	LOG	OHIO	299
WURTSMITH AFB	SAC	MICHIGAN	200

DEPARTMENT OF THE AIR FORCE
MILITARY CONSTRUCTION PROGRAM
FISCAL YEAR 1991

ECONOMIC PROVISIONS

The construction projects included in the Air force program reflect economies and efficiencies in the use of facility resources. Economic analysis was used in the evaluation of specific projects, where pertinent and is so indicated on individual project justifications.

DESIGN FOR ACCESSIBILITY OF PHYSICALLY HANDICAPPED PERSONNEL

In accordance with Section 102(2) (c) of the National Environmental Policy Act of 1969 (PL 91-190), the environmental impact analysis process (EIAP) has been completed or is actively underway for all projects in the Air Force FY 1991 Military Construction Program.

EVALUATION OF FLOODPLAINS AND WETLANDS

All projects in the program have been evaluated for compliance with Executive Orders 11988, Floodplain Management, and 11990, Protection of Wetlands, and the Floodplain Management Guidelines of the U.S. Water Resources Council. Projects have been sited to avoid or reduce the risk of flood loss, minimize the impact of floods on human safety, health and welfare, preserve and enhance the natural and beneficial values of wetlands and minimize the destruction, loss or degradation of wetlands.

FY 1991

CONGRESSIONAL REPORTING REQUIREMENTS

1. STATEMENTS ON NATO, JFIP OR CDIP ELIGIBILITY

These are in response to the requirement in the FY 1988 Senate Appropriations Committee Report, 100-200, page 13, and are included in the appropriate project justifications.

2. STATEMENTS ON COMPLIANCE WITH CONSTRUCTION MANUAL 4270.1M

These are in response to the requirement in the FY 1988 Senate Appropriations Conference report, 100-498, page 1003, and are included in each project justification.

3. NEW AND CURRENT MISSION ACTIVITIES

The FY 1989 Senate Appropriations Committee report, 100-380, pages 10 and 11, identified a requirement to include an exhibit in the budget justification books that displayed requested projects in two separate categories: New Mission and Current Mission. The C (current mission) or N (new mission) designation which follows the project on the listing at Tab D identifies each project as new or current mission. Additionally, each justification in Block 11 indicates weather the project supports a new or current mission.

4. MINOT CHILD DEVELOPMENT CENTER

This project is included in the FY 1991 MILCON program on page 294 and is in response to the FY 1990 House Armed Services Report 101-121, page 333 and FY 1990 House Appropriations Committee Report 101-176, page 21.

5. TRAVIS DINING HALL AND ADMINISTRATION SUPPORT CENTER

These projects are included in the FY 1991 MILCON program on pages 97 and 95 and are in response to the FY 1990 House Appropriations Committee report 101-176, pages 20 and 21.

6. VANDENBERG LAND ACQUISITION

Initial funding is included in the FY 1991 MILCON program on page 103 in response to FY 1990 House Appropriations Committee report 101-176, page 21 and the FY 1990 Senate Appropriations Committee report 101-130, pages 29 and 30.

7. Additional real estate information for each project which involves real estate acquisition requested on page 679 of the FY 1990 Armed Services Conference Report 101-331 is being provided under separate cover.

NON-MILCON CONSTRUCTION

This information is being provided in response to the requirement on page 1006 of the FY 1988 Appropriations Conference report 100-498 and reporting requirements on Privatization. Information on appropriations other than MILCON are on the following pages:

PROGRAM	PAGE NUMBER
Procurement	F-4
Operations and Maintenance	F-15
Research and Development (RDT&E)	F-17

NON-MILCON CONSTRUCTION PROCUREMENT

NON-MILCON CONSTRUCTION FROM PROCUREMENT FUNDS

PLANT NUMBER AND LOCATION	PROGRAM AMOUNT ($000)
AF PLANT 4, FT WORTH, TEXAS	4,746
AF PLANT 6, MARIETTA, GEORGIA	2,200
AF PLANT 42, PALMDALE, CALIFORNIA	300
AF PLANT 44, TUCSON, ARIZONA	6,998
AF PLANT 59, BINGHAMTON, NEW YORK	205

JUSTIFICATION FOLLOWS:

1. COMPONENT USAF	FY 19 91 FACILITY PROJECT DATA	2. DATE 27 Jun 89

3. INSTALLATION AND LOCATION Air Force Plant 4 Ft Worth TX	4. PROJECT TITLE MPC 7000 Env. Prot. (Alteration) Microbiological Degrade/Organic Mat'l

5. PROGRAM ELEMENT 78011F	6. CATEGORY CODE 221-221	7. PROJECT NUMBER N/A	8. PROJECT COST ($000) $442.0

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Microbiological Degradation of Organic Residuals (Waste Minimization)	L/S	---	---	$442.0

10. DESCRIPTION OF PROPOSED CONSTRUCTION

System will process approximately 2000 gals per day and will include pumps, piping, holding tank, carbon absorber, bioreactor, oxygen feed unit and necessary power/controls.

BASIS OF NEED:

Will treat organic-contaminated wastewater and residuals using a microbiological reactor. This will eliminate the disposal of potentially hazardous organic substances left over from other treatment processes as well as organically contaminated groundwater.

IMPACT IF NOT PROVIDED:

Is required to comply with regulations promulgated or proposed by the Environmental Protection Agency (EPA) under authority of the Hazardous and Solid Waste Amendments (HSWA-1984) to the Resource Conservation and Recovery Act (RCRA). This legislation requires banning the land disposal of hazardous wastes unless the EPA determines that such a ban is not required to protect human health and the environment.

DD FORM 1 DEC 76 1391 PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED PAGE NO

U.S. G.P.O. 1984-420-979/13678

1 COMPONENT USAF	FY 19 91 FACILITY PROJECT DATA	2 DATE 27 Jun 89
3 INSTALLATION AND LOCATION Air Force Plant 4 Ft Worth TX	4. PROJECT TITLE MPC 7000 Env. Prot. (Alteration) Replace East Ind. Waste Line	

5 PROGRAM ELEMENT 78011F	6 CATEGORY CODE 221-221	7. PROJECT NUMBER N/A	8. PROJECT COST ($000) $2,893.0

9 COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Replace East Industrial Waste Line	L/S	---	---	$2,893.0

10 DESCRIPTION OF PROPOSED CONSTRUCTION

Replace the underground east branch of the AFP 4 industrial wastewater (IW) line with a new line incorporating secondary containment with interstitial monitoring. Pipe sizes vary from 2 1/2" dia to 14" dia.

The east IW line carries various dilute industrial wastewater streams from test facilities and aircraft flight operations along the east side of the plant.

BASIS OF NEED:
Required to prevent discharge of hazardous substances in accordance with the Clean Water Act. The project will also reduce liability for such releases created by the Resource Conservation and Recovery Act (RCRA) and the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA)

IMPACT IF NOT PROVIDED:
A rupture in an existing waste line can result in potential discharge of hazardous substances to waters of the contiguous zone of the United States. Such releases will create immediate emergency response needs and create potentially very costly remediation. Undetected slow releases from underground lines can also create very costly remediation requirements.

U.S. G.P.O. 1984-420-979/13678

1. COMPONENT USAF	FY 19 91 FACILITY PROJECT DATA	2. DATE 27 Jun 89

3. INSTALLATION AND LOCATION Air Force Plant 4 Ft Worth TX	4. PROJECT TITLE MPC 7000 Env. Prot (Alteration) Secondary Containment/Salvage Yard

5. PROGRAM ELEMENT 78011F	6. CATEGORY CODE 221-221	7. PROJECT NUMBER N/A	8. PROJECT COST ($000) $622.0

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Secondary Containment for Salvage Yard	L/S	---	---	$622.0

10. DESCRIPTION OF PROPOSED CONSTRUCTION

Provide concrete curbing and sump pit. Provide steel frame rain protection cover, approximately 29,000 SF.

BASIS OF NEED:
Yard is utilized to hold used, damaged or defective materials which have some resale or salvage value. Some of these items may have hazardous properties or may be contaminated with substances which are hazardous (e.g., solvents, cleaners, oils, coolant, etc.). The secondary containment and rain covers will provide a means of controlling leaks and spills before they contact the environment, as well as preventing rainfall and runoff from being contaminated by any hazardous substance.

IMPACT IF NOT PROVIDED:
Runoff from salvage yard operations could result in potential discharge of hazardous substances to waters of the contiguous zone of the United States. Such releases will create immediate emergency response needs and create potentially very costly remediation.

1. COMPONENT USAF	FY 1991 **FACILITY PROJECT DATA**	2. DATE 27 Jun 89

3. INSTALLATION AND LOCATION Air Force Plant 4 Ft Worth TX	4. PROJECT TITLE MCP 7000 Env. Prot. (Alteration) Non-Sulfide Chemical Milling

5. PROGRAM ELEMENT 78011F	6. CATEGORY CODE 221-221	7. PROJECT NUMBER N/A	8. PROJECT COST ($000) $789.0

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Non-Sulfide Chemical Milling (Waste Minimization)	L/S	---	---	$789.0

10. DESCRIPTION OF PROPOSED CONSTRUCTION

A process system including piping, tanks, pumps, filters, control system to remove sulfide compounds from chemical milling etch solution.

BASIS OF NEED:
Will reduce the quantity of hazardous waste generated through solution regeneration. Will eliminate the possibility of accidently producing hydrogen sulfide gas, a dangerous and toxic air pollutant.

IMPACT IF NOT PROVIDED:
Is required to comply with regulations promulgated or proposed by the Environmental Protection Agency (EPA) under authority of the Hazardous and Solid Waste Amendments (HSWA-1984) to the Resource Conservation and Recovery Act (RCRA).

DD FORM 1 DEC 76 1391

PREVIOUS EDITIONS MAY BE USED INTERNALLY
UNTIL EXHAUSTED

PAGE NO

U.S. G.P.O. 1984-420-979/13678

1. COMPONENT USAF	FY 19 91 FACILITY PROJECT DATA	2. DATE 30 Jun 89

3. INSTALLATION AND LOCATION Air Force Plant 6 Marietta GA	4. PROJECT TITLE Equalization Basin for AFP 6 Tertiary Treatment Plan MPC 7000 Environmental Protection

5. PROGRAM ELEMENT 78011F	6. CATEGORY CODE 221-221	7. PROJECT NUMBER N/A	8. PROJECT COST ($000) 1,800

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Equalization Basin	L/S	---	---	$1,320
Supporting Facilities				382
Site Preparation - 132	L/S	---	---	
Connection Piping - 250	L/S	---	---	
Subtotal				1,702
Construction Reserve (5%)				85
Total Facility Cost				1,787
Total Project Cost (rounded)				$1,800

10. DESCRIPTION OF PROPOSED CONSTRUCTION

Design and construct a 1,000,000 gallon equalization basin or tank for the AFP 6 third level sanitary treatment plant. Equalization basin (or tank) will be upstream of existing treatment plant trickling filters. Design effort to decide if tank or basin required.

BASIS OF NEED:
The existing tertiary treatment plant is not equipped to handle IWTP effluent with high phenol/cyanide contents. Present system must process high-limit effluent in bulk with resulting NPDES permit limit excursions. Installation of equalization basin (tank) will contain occasional IWTP discharge with high phenol/cyanide content and allow for proper treatment of resulting influent to tertiary plant over a period of time. This task is a recommendation of phenol/cyanide investigation under AF Project 1-87-33.

IMPACT IF NOT PROVIDED:
Regulation constraints by local & state offices of environmental agencies will cause the existing tertiary treatment plant to obtain supplemental processing from other means at great cost to the government.

U.S. G.P.O. 1984-420-979/13678

1. COMPONENT USAF	FY 19 91 **FACILITY PROJECT DATA**	2. DATE 30 Jun 89

3. INSTALLATION AND LOCATION Air Force Plant 6 Marietta GA	4. PROJECT TITLE Phosphate Treatment System IIPC 7000, Environmental Protection

5. PROGRAM ELEMENT 78011F	6. CATEGORY CODE 221-221	7. PROJECT NUMBER N/A	8. PROJECT COST ($000) 1,400

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Phosphate treatment System	L/S	---	---	$1,250
Supporting Studies				
Initial Waste Stream Study-80	L/S	---	---	80
Subtotal				1,330
Construction Reserve (5%)				67
Total Facility Cost				1,397
Total Project Cost (rounded)				$1,400

10. DESCRIPTION OF PROPOSED CONSTRUCTION

This task provides for the study, design and construction of a phosphate treatment system to retrofit the existing industrial waste treatment plant with additional phosphate capabilities. New facilities are proposed which will provide the addition of ferric sulfate feeders for precipitant addition to the tertiary treatment system. This system will precipitate phosphate out of solution by gravity in the final clarifiers at the third level treatment plant for treatment in the sludge disposal system.

BASIS OF NEED:
Notification was given by Georgia EPD to AFP 6 in Feb 89 that phosphate discharge limits were being reduced by 150% within a 2-year period.

After receiving notice of discharge limitation reductions regarding phosphorus pollutants from Georgia Department of Natural Resources, an assessment was made of impact on AF Plant 6/Base operations. With a monthly average discharge limitations being reduced approximately 150% of maximum discharge, it is obvious that continued environmental compliance is in jeopardy.

IMPACT IF NOT PROVIDED:
Difficulty in meeting existing discharge limitations are encountered during warm weather seasons and forthcoming reductions in discharge make compliance virtually impossible with existing equipment.

1. COMPONENT USAF	FY 1991 FACILITY PROJECT DATA	2. DATE 16 Aug 89

3. INSTALLATION AND LOCATION Air Force Plant 42 Palmdale CA	4. PROJECT TITLE MPC 1000, Expansion, Add Entry Traffic Lanes from Avenue M

5. PROGRAM ELEMENT 78011F	6. CATEGORY CODE 22	7. PROJECT NUMBER N/A	8. PROJECT COST ($000) $300

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Add/Improve Traffic Lanes	LS	---	---	$300

10. DESCRIPTION OF PROPOSED CONSTRUCTION

This project provides for the addition and improvement of each site entry roadway from the existing guard houses to the existing parking lots at Sites 1 through 4. The estimated cost of work at each site will vary as follows:

Site 1	$60,000
Site 2	$60,000
Site 3	$155,000
Site 4	$25,000

BASIS OF NEED:

Avenue M, the access roadway to each of the above Sites, is being widened and improved by Los Angeles County from two lanes to four lanes. Turn lanes into each Site are being added/improved, and the Site entry roadways up to the Site guard buildings are being widened/improved. This construction work will be completed in 1990 along with the installation of traffic signals.

IMPACT IF NOT PROVIDED:

Without this project, the smooth, orderly flow of traffic into and out of each of the above Sites will be disrupted by the inadequacies of the existing Site access roadways. Each of the above entry traffic lanes requires addition/improvement to safely and efficiently handle the thousands of Air Force Plant 42 employee vehicles every day.

PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED

PAGE NO

U.S. G.P.O. 1984-420-979/13676

1 COMPONENT
USAF

FY 1991 FACILITY PROJECT DATA

2 DATE
27 Jun 89

3 INSTALLATION AND LOCATION
Air Force Plant 44
Tucson AZ

4. PROJECT TITLE
MPC 7000 (Alteration)
REPL HOLDING/BRINE BEDS-PHI

5 PROGRAM ELEMENT
78011F

6 CATEGORY CODE
222222

7. PROJECT NUMBER

8. PROJECT COST ($000)
5100

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Repl Holding Ponds & Brine Beds-Ph 1 (Construct two 1 million gallon above ground tanks)	EA	2	2410	$4820
Construction Reserve (5%)				241
Total Facility Cost				5061
Total Facility Cost (rounded)				$5100

10 DESCRIPTION OF PROPOSED CONSTRUCTION

Construct (2) 1,000,000 gallon above ground tanks with secondary containment and monitoring systems along with the associated piping and pumping systems to eliminate the need for either holding ponds or evaporative beds.

BASIS OF NEED:
The United States Congress has enacted "land ban" legislation prohibiting the land treatment, storage & disposal of a wide range of chemicals. The Environmental Protection Agency accordingly enacted the 40 CFR 268 regulations codifying Congress' legislation. The stated intent of this legislation is to minimize and, if possible, eliminate the use of land disposal, including surface impoundments.

IMPACT IF NOT PROVIDED:
Failure to approve this project could result in the noncompliance of RCRA Section 1003.A-6 whose objective is minimizing the generation of hazardous waste & the Land disposal of hazardous waste by encouraging process substitution, materials recovery, properly conducted recovery, recycling, reuse and treatment.

DD FORM 1 DEC 76 1391

PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED

PAGE NO

☆U.S. G.P.O. 1984-420-979/13678

1 COMPONENT USAF	FY 19 91 FACILITY PROJECT DATA	2 DATE 27 Jun 89

3 INSTALLATION AND LOCATION Air Force Plant 44 Tucson AZ	4 PROJECT TITLE MPC 7000 (Alteration) ACID WASTE/ALKALINE SOL SYS

5 PROGRAM ELEMENT 78011F	6 CATEGORY CODE 222222	7 PROJECT NUMBER N/A	8 PROJECT COST ($000) 1898

9 COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Upgrade Concentrated Acid Waste/ Concentrated Alkaline Solution System Industrial Waste Treatment Plant	LS	---	---	$1808
Project Reserve (5%)				90
Total Project Cost				1898
Total Project Cost (rounded)				$1898

10 DESCRIPTION OF PROPOSED CONSTRUCTION

Upgrade the concentrated alkaline solution (CAS) and the concentrated acid waste (CAW) batch treatment systems by upgrading technologies to allow for the most efficient and safe process to neutralize solutions, reduce hexavaliant chromium, and destroy cyanide to limits below land ban standards. Install a wet air oxidation system or similar system, for proper destruction of cyanide waste prior to the proposed dewatering of concentrated brines.

BASIS OF NEED:
By primary reduction of hexavalent chromium, the need for stabilization during the sludge removal and process phase of treatment will be reduced as the chromium would be treated to meet the land ban requirements.

Concentrated materials will then be processed through the sludge solidification system to comply with the land ban regulations.

IMPACT IF NOT PROVIDED:
Failure to approve this project will result in noncompliance with land ban regulations found at 40 CFR 268, and could result in civil/criminal litigation. It will also result in the inability to manage the CAW/CAS waste stream within the surface impoundments.

1. COMPONENT USAF	FY 1991 **FACILITY PROJECT DATA**	2. DATE 11 Jul 89

3. INSTALLATION AND LOCATION AFP 59, Binghamton NY	4. PROJECT TITLE MPC 7000, Environmental. Construct Solid Waste Recycling Fac.

5. PROGRAM ELEMENT 78011F	6. CATEGORY CODE 221-229	7. PROJECT NUMBER N/A	8. PROJECT COST ($000) $205

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Construct Solid Waste Handling Facility	LS	---	---	$205.0

10. DESCRIPTION OF PROPOSED CONSTRUCTION

Renovate the existing maintenance dock area to provide for segregation and handling of paper, metals, plastics and other solid waste products. Proposed work will include drainage, walls, electrical utilities, fire protection, heating and ventilation.

BASIS OF NEED:

Plant 59 does not have suitable facilities for the handling of solid recyclable materials such as paper, glass, plastics, etc. On 1 December, 1990, Broome County (Plant 59 is in Broome County) will implement a mandatory recycling program. On 1 January 1992, the state of New York will follow with its own statewide recycling mandate. This project will provide Plant 59 with a recycling facility that will meet both mandatory programs.

IMPACT IF NOT PROVIDED:

Without this environmental project, AFP 59 will be out of compliance with mandated environmental recycling requirements.

DD FORM 1 DEC 76 1391 PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED PAGE NO

U.S. G.P.O. 1984-420-979/13678

NON-MILCON CONSTRUCTION OPERATIONS & MAINTENANCE

REAL PROPERTY MAINTENANCE
($ in Millions)

Appropriation	FY 89	Price Growth	Foreign Currency	Program Growth	FY 90
Operation and Maintenance, Active Air Force	1,734.2	+98.1	-21.5	-207.7	1,603.1

Description of Operations Financed: Provides resources for in-service and contractual accomplishment of maintenance and repair work on buildings, structures, warehouses, roadways, runways and aprons, missile sites, railway trackage, utility plants and distribution systems. Also includes minor construction to erect, install or assemble a new facility or to expand, alter or convert an existing facility when costs of such minor construction do not exceed $200 thousand for each project.

Program Data:	FY 89	FY 90
Maintenance and Repair of Real Property	1,534.0	1,494.0
Minor Construction	200.2	109.1
Backlog of Maintenance and Repair (BMAR)	1,039.9	1,335.7

Personnel Data:		
Active Force Personnel		
Officer	1,083	1,106
Enlisted	18,679	18,608
Total Military End Strength	19,762	19,714
Civilian Personnel		
U.S. Direct Hires	14,609	14,088
Foreign National Direct Hire	1,190	1,267
Total Direct Hires	15,799	15,355
Foreign National Indirect Hire	2,880	3,253
Total Civilian End Strength	18,679	18,608

F-~~28~~19

Discussion: Funding for maintenance, repair and minor construction of real property will total approximately $1,603 million in FY 1990. This represents a decrease of 12 percent in real growth from FY 1989 actual expenditures. Constrained Air Force budget authority in FY 1990 causes the backlog of maintenance and repair on real property facilitites to increase to an estimated $1,335.7 million in FY 1990. The backlog in FY 1990 will be $296 million above FY 1989.

SARPMA - FY 1989 is the last year of O&M purchases for real property maintenance (RPM) from the industrially funded San Antonio Real Property Maintenance Agency for Lackland, Randolph, Brooks and Kelly Air Force Bases. Beginning in FY 1990 the RPM accomplishment reverts to the responsibility of a Base Civil Engineering squadron at each installation.

REAL PROPERTY MAINTENANCE
($ in Millions)

Appropriation	FY 90	Price Growth	Foreign Currency	Program Growth	FY 91
Operation and Maintenance, Active Air Force	1,603.1	+93.3	0	+87.5	1,783.9

Description of Operations Financed: Provides resources for in-service and contractual accomplishment of maintenance and repair work on buildings, structures, warehouses, roadways, runways and aprons, missile sites, railway trackage, utility plants and distribution systems. Also includes minor construction to erect, install or assemble a new facility or to expand, alter or convert an existing facility when costs of such minor construction do not exceed $200 thousand for each project.

Program Data:	FY 90	FY 91
Maintenance and Repair of Real Property	1,494.0	1,657.6
Minor Construction	109.1	126.3
Backlog of Maintenance and Repair (BMAR)	1,335.7	1,575.9

Personnel Data:		
Active Force Personnel		
Officer	1,106	1,104
Enlisted	18,608	18,512
Total Military End Strength	19,714	19,616
Civilian Personnel		
U.S. Direct Hires	14,088	14,131
Foreign National Direct Hire	1,267	1,316
Total Direct Hires	15,355	15,447
Foreign National Indirect Hire	3,253	3,064
Total Civilian End Strength	18,608	18,511

Discussion: The funding request for maintenance, repair, and minor construction of real property will total approximately $1,603 million and $1,784 million in FY 1990 and FY 1991 respectively. The FY 1991 funding represents a 5.5 percent increase in real growth over the FY 1990 budget; the funding is aimed at slowing the growth of backlog of maintenance and repair to a year-end FY 1991 backlog of $1,575.9 million.

Exhibit PBA-7 (Page 2 of 2)

BASE OPERATION SUPPORT (BOS)

($ in Millions)

Appropriation	FY 89	Price Growth	Foreign Currency	Program Growth	FY 90	Price Growth	Foreign Currency	Program Growth	FY 91
Operation & Maintenance, Base Opererating Support									
(Utility Operations)	628.1	35.5	-18.9	-8.1	636.9	+37.0	0	3.6	677.6
(Other Engineering Support)	512.6	28.6	-6.9	+13.8	548.2	+31.5	0	13.0	592.6

Personnel Assigned to BOS	FY 89	FY 90	FY 91
Military			
Officer	448	438	436
Enlisted	7,728	7,357	7,318
Total Military E/S	8,176	7,795	7,754
Civilian			
U.S. Dir. Hires	8,417	6,238	6,325
Foreign Nat. Dir. Hires	685	561	589
Total Direct Hires	9,102	6,799	6,914
Foreign Nat. Indir. Hire	1,660	1,441	1,372
Total Civilian E/S	10,762	8,240	8,286

Exhibit PBA-10

DoD Component: Air Force
Appropriation: Operations & Maintenance (3400)

REAL PROPERTY MAINTENANCE ACTIVITIES
FY 1991 PRESIDENT'S BUDGET
OPERATIONS & MAINTENANCE COSTS
BACKLOG OF MAINTENANCE AND REPAIR (BMAR) OF REAL PROPERTY
($ IN MILLIONS)

		FY 89	FY 90	FY 91
A.	BACKLOG-BEGINNING OF YEAR			
	(BACKLOG CARRIED FORWARD FROM PRIOR YEARS	$869	$1,040	$1,327 *
	(MINUS BACKLOG MORE THAN FOUR YEARS OLD)	$0	$0	$0
	(ADJUSTED BACKLOG CARRIED FORWARD)	$869	$1,040	$1,327
	(INFLATION ADJUSTMENT)	$37	$44	$56
	(FOREIGN CURRENCY REVALUATION)	$0	$0	$0
B.	REQUIREMENTS:			
	(RECURRING MAINTENANCE & REPAIR)	$1,043	$1,137	$1,214
	(MAJOR REPAIR PROJECTS)	$598	$633	$654
	(BACKLOG DETERIORATION)	$27	$31	$40
C.	TOTAL REQUIREMENT	$2,574	$2,885	$3,291
D.	PROGRAM ADJUSTMENTS:			
	(DIRECT PROGRAM FUNDING)	$1,534	$1,494	$1,658
	(FUNDS MIGRATED FROM OTHERS AREAS)	$0	$55	$57
	(NET OTHER ADJUSTMENTS)	$0	$0	$0
E.	BACKLOG AT END OF YEAR (C-D)	$1,040	$1,336	$1,576
F.	PERCENT BMAR CHANGE	19.7%	28.5%	18.8%

INCLUDES PE 31194
* REDUCED FOR PEASE CLOSURE

Exhibit OP-27

NON-MILCON CONSTRUCTION
RESEARCH & DEVELOPMENT

MAJOR IMPROVEMENTS TO AND CONSTRUCTION OF GOVERNMENT-OWNED FACILITIES

Department/Agency: Air Force

Part 1. Utilization of Section 2353, Title 10 Authority

Specialized R&D facilities and/or equipment determined to be necessary for the performance of a contract for a Military Department for research and development, may be constructed by or furnished to the contractor and funded from appropriations available for research, development, test and evaluation. The Congress enacted this legislation, now 10 USC 2353, in 1956. This policy is executed through DoD Directive 4275.5. Under this policy, the Secretaries of the Military Departments or their designees, and the Directors of Defense Agencies may approve facilities projects up to $3,000,000; the Under Secretary of Defense for Acquisition approves projects exceeding $3,000,000. The Congress is notified in advance of starting any project involving construction, regardless of the dollar amount. The table below provides a summary of all such projects accomplished in FY 88 and FY 89 and planned in FY 90 and FY 91.

SECTION I - Projects Accomplished or Underway

Facility/Equipment	RDT&E Program Element	Contractor	Location	Total Obligational Authority (Thousands of Dollars) 1988	1989	1990	1991
Refurbish Complex 40 MODS 1_/*	35119F	Martin Marietta	Cape Canaveral AFS, FL		45,000	70,000	70,000
Alter Integrate-Transfer Launch (ITL) Facilities 1_/	35119F	Martin Marietta	Cape Canaveral AFS, FL	11,000	7,100		
PLF Processing Annex, ITL Expansion 1_/	35119F	Martin Marietta	Cape Canaveral AFS, FL		10,000		
Medium Launch Vechicle (Atlas II) Program 1_/	35119F	General Dynamics	Cape Canaveral AFS, FL	1,500	9,100	4,500	
Titan (IV) Facilities 1_/	34111F	Stearns-Roger	Vandenberg AFB, CA		6,600	12,000	13,000
Solid Rocket Motor Upgrade 1_/	35119F	Martin Marietta	Edwards AFB, CA	13,000			
Addition to Electronic Research Laboratory 1_/*	Various	MIT Lincoln Lab	Hanscom AFB, MA Bldg 1312L	50	395	3,532	
Addition to Electronic Research Laboratory 1_/	63250F	MIT Lincoln Lab	Hanscom AFB, MA Bldg 1312L	50	243	2,240	
Addition to Electronic Research Laboratory 1_/*	63250F	MIT Lincoln Lab	Hanscom AFB, MA Bldg 1302C		150	450	

SECTION I - Projects Accomplished or Underway (Cont'd)

Facility/Equipment	RDT&E Program Element	Contractor	Location	Total Obligational Authority (Thousands of Dollars)			
				1988	1989	1990	1991
Near Field Anechoic Chamber 1_/*	63424F	MIT Lincoln Lab	Hanscom AFB, MA	121	893		
Contractor R&D ATF Dem/Val Facility 1_/	63230F	Various	Edwards AFB, CA	9,000			

Part 1. Utilization of Section 2353, Title 10 Authority

SECTION II - Projects Planned or Projected

Facility/Equipment	RDT&E Program Element	Contractor	Location	Total Obligational Authority (Thousands of Dollars) 1988	1989	1990	1991
Contractor Provided Facilities for Solid Rocket Motor Upgrade 1_/	35119F	Martin Marietta	Vandenberg AFB, CA			4,000	
Hazardous Processing Facility 2_/	33110F	GE	Cape Canaveral AFS, FL				9,600
MDT Upgrades, Integrate-Transfer Launch (ITL) Facilities 1_/*	35119F	Martin Marietta	Cape Canaveral AFS, FL			25,000	
PLF Cleaning (VIB Modification) 2_/	35119F	Martin Marietta	Cape Canaveral AFS, FL			3,000	
Solid Rocket Motor Upgrade 1_/*	35119F	Martin Marietta	Cape Canaveral AFS, FL			18,000	
Addition to Chemical Stock Facility 1_/*	63250F	MIT Lincoln Lab	Hanscom AFB, MA Bldg 1302M			881	
Dynamic Coherent Measurement Complex (DYCOMS) 1_/	65809F	EG&G	White Sands Missile Range				4,300
Modification to Contractor Hazardous Fuel Storage Fac 2_/	Various		Cape Canaveral AFS, FL			1,750	

Part 2. Utilization of RDT&E Appropriation for Facilities at Government-Owned/Government-Operated Installations

DOD Manual 7110-1-M provides that RDT&E appropriations may finance the development, design, purchase and installation (including directly related foundations, shielding, environmental control, weather protection, structural adjustments, utilities and access) of equipment or instrumentation required for research, development, test and evaluation activities. Facilities which are consumed in R&D test and evaluation, prototype facilities/equipment, and temporary facilities are also financed as part of the R&D appropriation involved since their intended utility expires when a test is completed. (Note: Contractor-operated facilities are included in Part 1.) The table below provides a summary listing of all such projects for the the installation of equipment, where the cost of installation is more than $200,000, accomplished in FY 88 and FY 89, and planned in FY 90 and FY 91.

SECTION I - Projects Accomplished or Underway

Facility/Equipment	RDT&E Program Element	Location	Total Obligational Authority (Thousands of Dollars)			
			1988	1989	1990	1991
Equipment Installation Projects Follow						
Modernize Component Research Air Facility 1_/	62203F	Wright-Patterson AFB, OH Bldgs 18B, 18C and 18E		528		
Low Observables R&D 1_/	63003F	Wright-Patterson AFB, OH Bldg 254	1,250			
Sensitive Compartmented Information Facility (SCIF) 1_/	20006F	Hanscom AFB, MA Bldg 1614	126			
Upgrade Arc Heater 1_/	64755F	AEDC, Arnold AFB, TN		549		
Test Facility Plant Automation 1_/	65807F	AEDC, Arnold AFB, TN			140	34
Freejet Test Cell C2 1_/*	Classified	AEDC, Arnold AFB, TN		880	450	600
T3 Modification 1_/*	Classified	AEDC, Arnold AFB, TN		495	463	1,836
Flex Nozzle Equip Tunnel 4T 1_/*	65807F	AEDC, Arnold AFB, TN		848		
Upgrade Air Conditioning System 1_/	65096F	Edwards AFB, CA, Bldg 145		509		

Part 2. Utilization of RDT&E Appropriation for Facilities at Government-Owned/Government-Operated Installations

SECTION I - Projects Accomplished or Underway

Facility/Equipment	RDT&E Program Element	Location	Total Obligational Authority (Thousands of Dollars)			
			1988	1989	1990	1991
Equipment Installation Projects (Cont'd)						
Tempest Shielded Room 1_/	Classified	Edwards AFB, Ca	206			
Contractor R&D ATF Dem/Val Facility 1_/	63230F	Edwards AFB, CA	9,800			
Chemical Analysis Equipment 1_/	62102F	Wright-Patterson AFB, OH Bldg 20450		400		
CRAY X-MP/4XX Computer System 1_/*	62201F, 62202F 62203F, 62204F	Wright-Patterson AFB, OH Bldg 20676	293		400	
Computer-Aided Engineering (CAE) Support 1_/	65807F	Wright-Patterson AFB, OH Bldgs 20005, 30206 and 30207		100	450	
Prototype/Test Facilities Follow						
Small ICBM Program 1_/*	64312F	Various	9,000	900		
Peacekeeper Rail Garrison Basing 1_/*	64312F	Various	3,400	36,600	41,800	7,500
Atmospheric Compensation Facility 1_/	63605F	Kirtland AFB, NM		100	2,000	1,300
Temporary Construction Projects Follow						
C-17A Airdrop Test Complex 1_/	64231F	Edwards AFB, CA		4,300		
SRAM II Integration 1_/	63364F/64226F	Edwards AFB, CA		1,848		

Part 2. Utilization of RDT&E Appropriation for Facilities at Government-Owned/Government-Operated Installations

SECTION II - Projects Planned or Projected

Facility/Equipment	RDT&E Program Element	Location	Total Obligational Authority (Thousands of Dollars) 1988	1989	1990	1991
Equipment Installation Projects Follow						
Reentry Systems Launch Program 1_/*	64312F	Various			1,500	
Foundry Processing Equipment 1_/		Wright-Patterson AFB, OH Bldg 20655				2,500
Turbine Research Laboratory 1_/*	62203F	Wright-Patterson AFB, OH Bldg 71B, J-Bay			413	
Anechoic Chamber Research Lab 1_/*	21002F	Wright-Patterson AFB, OH Bldg 4A			1,000	
Warfare Hot Bench Development System 1_/*	62204F	Wright-Patterson AFB, OH Bldg 620				500
Clean Room Support Area 1_/*	62204F	Wright-Patterson AFB, OH Bldg 620			500	
Combustion Air Heaters & Exhaust System 1_/	62204F	Wright-Patterson AFB, OH Bldg 490				750
Environmental Control System for Clean Rooms 1_/*	62204F	Wright-Patterson AFB, OH Bldg 620			450	450
Metal Organic Molecular Beam Epitaxial System 1_/	62204F	Wright-Patterson AFB, OH Bldg 620			495	495
RASPL Relocation 1_/*	62204F	Wright-Patterson AFB, OH Bldg 620				400

Part 2. Utilization of RDT&E Appropriation for Facilities at Government-Owned/Government-Operated Installations

SECTION II - Projects Planned or Projected

Facility/Equipment	RDT&E Program Element	Location	Total Obligational Authority (Thousands of Dollars) 1988	1989	1990	1991
Equipment Installation Projects (Cont'd)						
Upgrade Ballistic Range Capability 1_/	Various/Classified	AEDC, Arnold AFB, TN			1,235	540
High Temperature Lab Equipment 1_/*	RBA/TBD	AEDC, Arnold AFB, TN				1,000
R-Cells Instr & Control Equipment 1_/*	65807F	AEDC, Arnold AFB, TN			120	220
Freejet Test Cell C-1 1_/*	63269F	AEDC, Arnold AFB, TN				1,000
Improve Drier Reactivation 2_/	65807F	AEDC, Arnold AFB, TN			509	737
Test Unit Support System 2_/	65807/64755 Various	AEDC, Arnold AFB, TN			213	
Visual Simulation Display 1_/	64755F	Edwards AFB, CA			680	420
Temporary Construction Projects Follow						
Airborne Imagery Transmitter (ABIT) 1_/*	63727F	Wright-Patterson AFB, OH Bldg 620				300

1_/ Previously listed in RDT&E Congressional Exhibit
2_/ Initial listing
* Cost, Scope and/or Year Change

MAJOR IMPROVEMENTS TO AND CONSTRUCTIION OF GOVERNMENT-OWNED FACILITIES FUNDED BY RDT&E

Part 3. Utilization of RDT&E Appropriation for Minor Construction

For in-house installations, construction projects in support of R&D for $200,000 or less are funded from RDT&E appropriations. Such expenditures are authorized by 10 USC 2805 and the applicable provisions of the current DoD Appropriations Act. Under this project approval at this level is authorized by the Major Command concerned, or delegated to R&D installation commanders as appropriate. The table below provides a summary total of such minor construction accomplished in FY 88 and FY 89, and estimated amounts planned for FY 90 and FY 91. All minor construction projects must result in a complete and usable facility. In no event two or more minor construction projects or minor and major construction projects to be contrived to form a usable facility.

	Total Obligation Authority (Thousands of Dollars)			
	1988	1989	1990	1991
Summary of Minor Construction Funded by RDT&E, Air Force	13,953	15,942	17,168	9,348

Summary of Major Improvements to and Construction of Government-owned Facilities

Subtotal Part 1	35,521	79,481	145,362	96,900
Subtotal Part 2	24,075	48,067	52,818	20,582
Subtotal Part 3	13,953	15,942	17,168	9,348
Grand Total	73,549	143,490	215,348	126,830

1. COMPONENT

FY 1990-91

RDT&E FACILITIES PROJECT DATA

2. DATE
23 Aug 89

3. INSTALLATION AND LOCATION
4. PROJECT TITLE

Hazardous Processing Facility for DSCS/IABS Hazardous Processing Facility
CCAFS, Cape Canaveral, FL

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000)
33110F			$9,600

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Hazardous Processing Facility	LS			(1,600)
SITE/Architectural/Structural	LS			(1,700)
Mechanical	LS			(5,700)
Electrical	LS			(2,200)
TOTAL.................................	LS			9,600

10. DESCRIPTION OF PROPOSED CONSTRUCTION

Prepare site work/roadways/retaining walls; miscellaneous demolition; construct blast resist wall; construct doors/gaskets and hardware; interior uplift of existing high bay; refurb office area; construct encapsulation/airlock areas; construct fueling areas; build HVAC System; Install scrubber and containment system; install breathing air system; install 5 ton bridge cranes; controls; install new fire suppression system and water deluge system; construct fuel/oxidizer aspiration system; have capability for nitrogen purge, vacuum, krypton venting; install communications and cable; install fire alarm, CCTV, controls, and gas detect systems; power distributions; install lighting systems; UPS capability; and lightning protection.

PROJECT: Hazardous Processing Facility for DSCS/IABS Program.

REQUIREMENT: The basic requirement is to launch 10 Defense Satellite Communication System (DSCS) satellites using the Atlas II launch vehicle instead of from the Space Shuttle. This requires the processing and fueling of the spacecraft at an off pad facility properly configured to accept this hazardous operation. The operation is under contract to General Electric and the government is providing an existing facility which General Electric will modify/upgrade to enable them to satisfy their contractual requirements since no existing facilities can be used without modifications to satisfy the new requirements.

CURRENT SITUATION: No existing facility identified support requirements or schedule.

IMPACT IF NOT PROVIDED: Delay of DSCS/Atlas II launches. (First launch May 1991)

1. COMPONENT (AFSC) AIR FORCE	FY 1990 - 91 RDT&E FACILITIES PROJECT DATA	2. DATE 6 Sep 89

3. INSTALLATION AND LOCATION CAPE CANAVERAL AFS, FLORIDA	4. PROJECT TITLE VIB MODIFICATION, PAYLOAD FAIRING CLEANING FACILITY

5. PROGRAM ELEMENT 35119 F	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST ($000) $3,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ADDITION TO VIB BLDG: PAYLOAD FAIRING CLEANING FACILITY				$3,000

10. DESCRIPTION OF PROPOSED CONSTRUCTION

Modify/construct facilities necessary for Contractor Class 100,000 cleaning of Titan IV payload fairing sectors to prepare fairing for shipment to launch pad (Space Launch Complex 40 or Space Launch Complex 41) at Cape Canaveral AFS, Florida. Modifications include civil work for roadway access, relocation of parking areas, Structural and electrical modifications to existing VIB bldg.

__PROJECT:__ Modify VIB to provide payload fairing cleaning facility.

__REQUIREMENT:__ Recently revised criteria require fairings to be cleaned to clean 100,000 standards prior to being placed around the payload. Martin Marietta Corporation is on contract to deliver launch vehicles including the payload fairings but has no facility available to clean the fairings to the required standard. This project to be executed by Martin Marietta will provide the necessary facility capability to allow them to meet the terms of their contract and satisfy Air Force standards. The present contract requires Martin Marietta to deliver and launch 13 vehicles through FY 93.

__CURRENT SITUATION:__ Existing facilities are not configured to support the cleaning of payload fairings to the Class 100,000 clean requirement.

__IMPACT IF NOT PROVIDED:__ Significant schedule delays in launching payloads supporting the highest national priority programs. The Titan IV program will not meet Air Staff directed launch schedules.

DD FORM 1 DEC 76 1391

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PAGE NO

1 COMPONENT	FY 1990-91 RDT&E FACILITIES PROJECT DATA	2 DATE

3 INSTALLATION AND LOCATION CAPE CANAVERAL AIR FORCE STATION	MODIFICATION TO CONTRACTOR HAZARDOUS FUELS STORAGE FAC

5 PROGRAM ELEMENT VARIOUS	6 411-135		8 PROJECT COST ($000) 1,750

9 COST ESTIMATES

			UNIT COST	COST ($000)
MODIFICATION TO CONTRACTOR HAZARDOUS FUELS STORAGE FAC	LS			1,750
MECHANICAL	LS			(900)
ELECTRICAL	LS			(690)
				1,590
CONTINGENCY (10%)				(159)
				1,749
ROUNDED				1,750

10 DESCRIPTION OF PROPOSED CONSTRUCTION

Modifications to existing deluge system, vent flappers, flow meter, underground values, vapor detection system, tone telemetry system, fire alarms system, and lighting system.

PROJECT: Modify existing contractor hazardous fuels storage facility to allow safe storage for special fuel and oxidizer. The contractor, as part of his services, will be required to meet all fire and safety standards unless waived by appropriate offices.

REQUIREMENT: An appropriate storage facility needs to be modified to permit safe storage of a special fuel. Storage levels of two and four years for oxidizer and fuel respectively are required to assure continued missile and space shuttle launches. Stockpile is required to safeguard United States interests in the event supplier or circumstances prevent delivery of fuels and oxidizer. Storage Facility will provide fuel for a variety of missions.

CURRENT SITUATION: New criteria associated with these fuels require changes to existing contractor facility. The existing contractor facility cannot be used. Regulations governing road and rail transportation of these materials have been tightened making the need for on-site storage more critical. The government is the only user of these fuels, and continues to rely on sole-source supply for their availability.

IMPACT IF NOT PROVIDED: Lack of adequate reserve stockpile storage for these propellants could seriously curtail or stop missile, space and communications satellite programs that are vital to our national defense and continued space exploration.

1 COMPONENT AIR FORCE	FY 1990-91 RDT&E FACILITIES PROJECT DATA	2 DATE 26 Jul 89

3 INSTALLATION AND LOCATION ARNOLD AIR FORCE BASE, TENNESSEE 37389	4 PROJECT TITLE IMPROVE DRIER REACTIVATION, V

5 PROGRAM ELEMENT 65807F	6 CATEGORY CODE 311-115	7 PROJECT NUMBER ANZY 880336	8 PROJECT COST ($000) $1,246

9 COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
IMPROVE DRIER REACTIVATION, V				
Equipment Installation	LS			1246
Valves & Piping	LS			(893)
Heater Systems	LS			(78)
Electrical & Controls	LS			(221)
Filters	LS			(54)
				1246
Cost of Purchased Equipment (non-add)	LS			(873)
Total Equipment Installation & Equip Cost	LS			(2119)
Other Non-Add Costs:				
Design	LS			(211)

10 DESCRIPTION OF PROPOSED CONSTRUCTION

PROJECT: Modify two existing reactivation circuits, install two new reactivation circuits, and install all new process air filters for the V-Plant Driers 15 through 18. These driers provide process air to the von Karman Facility Wind Tunnels.

REQUIREMENT: Additional capability is needed to reduce the time required for reactivating the dessicant beds in von Karman Facility Driers 15 through 18 after they have become saturated with moisture from the process air. This capability will reduce the turn around time between tests, allow greater utilization of tunnel hardware and manpower, and allow more test data to be taken for a given period of time. Improved filtering of the process air to the von Karman Facility Wind Tunnels will reduce surface erosion of test models (improved heat transfer, pressure and aerodynamic data) and the schlieren windows (improved photographic data coverage of pressure wave profiles around the model).

CURRENT SITUATION: Each of two drier pairs is presently serviced by one hot-air circuit capable of reactivating the dessicant bed in only one of the driers at a time. Reactivation of the four driers when totally saturated takes approximately twenty-four hours. These systems have been in operation for thirty-five years, components and controls are outdated, air filter stations utilize oversize filter modules which cannot be removed from the driers once the existing reactivation circuits are modified. These modules currently have single-stage, 10-micron elements that will be replaced with 2-stage, 10 and 3-micron elements specially sized to go through an existing manway entry port.

PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED

1 COMPONENT AIR FORCE	FY 19 90-91 RDT&E FACILITIES PROJECT DATA	2 DATE 26 July 89

3 INSTALLATION AND LOCATION

ARNOLD AIR FORCE BASE, TENNESSEE 37389-5000

4 PROJECT TITLE Equipment Installation-Improve Drier Reactivation, V	5 PROJECT NUMBER ANZY880336

IMPACT IF NOT PROVIDED: Long drier reactivation cycles will continue to hamper quick turn-around of von Karman Facility Wind Tunnel tests. Dust particle erosion of components in each tunnel test section will continue to effect quality of test data. Test schedules and overall AEDC capacity will be affected.

DD FORM 1 DEC 76 1391c PREVIOUS EDITION IS OBSOLETE IN THE USAF. PAGE NO

U.S. G.P.O. 1977-241-130/1215

1 COMPONENT AIR FORCE	FY 19 90-91 RDT&E FACILITIES PROJECT DATA	2 DATE 14 AUG 89

3 INSTALLATION AND LOCATION ARNOLD AFB, COFFEE COUNTY, TN 37389	4 PROJECT TITLE TEST UNIT SUPPORT SYSTEM (TUSS)

5 PROGRAM ELEMENT 65807F	6 CATEGORY CODE 318614	7 PROJECT NUMBER ANZY900216	8 PROJECT COST ($000) $793

9 COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
EQUIPMENT INSTALLATION				793
COST OF PURCHASED EQUIPMENT (NON-ADD)				(3614)
TOTAL INSTALLATION AND EQUIPMENT				(4407)
OTHFR NON-ADD COST:				
Minor Construction*				(504)
Design				(178)
Checkout				(310)
Maintenance & Repair				(120)
Sorftware				(300)

*Minor construction will not exceed $190K in any one year or in any one test area.

10 DESCRIPTION OF PROPOSED CONSTRUCTION

PROJECT: The Test Unit Support System (TUSS) project is a 5-phase effort to automate operations and modernize three separate control rooms for three separate test units (Test Units T7, C1 and C2). This project procures and implements test area control systems to provide automatic control for selected test article and test facility functions. Each control room is a complete and usable, separate facility. New T7, C1 and C2 control rooms will be constructed and automatic control equipment will be installed and made operational.

PHASE I (FY 89) - Design the modifications to the existing T7 control room and control systems for compatibility with the new control equipment.

PHASE II (FY 90) - Install the new test area control system in the new T7 control room and transfer all controls to the new equipment.

- Design the modifications to C1 and C2 control room and control systems for compatibility with new control equipment.

PHASE III (FY 91) - Construct new C1 control room.

PHASE IV (FY 92) - Install the new test area control system in new C1 control room.

- Construct new C2 control room.

PHASE V (FY 93) - Install the new test area control system in new C2 control room.

DD FORM 1 DEC 76 1391 PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED PAGE NO

1 COMPONENT AIR FORCE	FY 1990-91 RDT&E FACILITIES PROJECT DATA	2 DATE 14 AUG 89
3 INSTALLATION AND LOCATION ARNOLD AFB, COFFEE COUNTY , TN 37389		
4 PROJECT TITLE TEST UNIT SUPPORT SYSTEM (TUSS)		5 PROJECT NUMBER ANZY900216

REQUIREMENT: To provide safe, reliable and economical operational control of test article and facility systems during propulsion testing of jet engines including the ATFE.

CURRENT SITUATION: The existing test article and facility control systems were designed for extensive manual control prior to the advent of mini and micro computer systems. These systems require manual setup, monitoring, operation and logging during engine testing. This results in excessive time-consuming manual intervention in operations which consumes excessive amounts of electrical energy and jet fuel, and decreases useful engine life.

IMPACT IF NOT PROVIDED: Without the implementation of this project, the test unit will continue to require excessive manpower and energy resources to accomplish test objectives. The Air Force initiative to upgrade and modernize the AEDC Turbine Engine Test Units will be delayed.

EQUIPMENT INSTALLATION	FY 89	FY 90	FY 91	FY 92	FY 93
Electronic Equipment		213		290	290
DESIGN (NON-ADD)					
Systems Design	78		100		
NEW EQUIPMENT (NON-ADD)		1034		1290	1290
CHECKOUT (NON-ADD)		100		110	100
SOFTWARE (NON-ADD)		100		100	100
MINOR CONSTRUCTION (NON-ADD)		134	190	180	
MAINTENANCE & REPAIR (NON-ADD)		10		55	55

APPROPRIATION LANGUAGE

MILITARY CONSTRUCTION, AIR FORCE

For acquisition, construction installation, and equipment of temporary or permanent public works, military installations, facilities, and real property for the Air Force as currently authorized by law, $1,376,200,000 to remain available until September 30, 1995: Provided, that of this amount, not to exceed $107,741,000, shall be available for study, planning, design, architect and engineer services, as authorized by law, unless the Secretary of Defense dtermines that additional obligations are necessary for such purposes and notifies the Committees on Appropriations of both Houses of Congress of his determination and the reasons therefor.

Military Construction, Air Force
Program and Financing (in Thousands of dollars) FISCAL YEAR 1985

Identification code 57-3300-0-1-051	Budget Plan (amounts for MILITARY CONSTRUCTION actions programed) 1989 actual	1990 est.	1991 est.	Obligations 1989 actual	1990 est.	1991 est.
Program by activities:						
Direct program:						
00.0101 Major construction				21,038		
00.0301 Planning				212		
00.0401 Supporting activities				119		
10.0001 Total				21,369		
Financing:						
17.0001 Recovery of prior year obligations				-121		
Unobligated balance available, start of year:						
21.4002 For completion of prior year budget plans				-39,479		
21.4009 Reprograming from/to prior year budget pla	-18,232					
22.4001 Unobligated balance transferred to other acc	9,663			9,663		
25.0001 Unobligated balance lapsing	8,569			8,569		
24 39.0001 Budget authority						

Military Construction, Air Force
Program and Financing (in Thousands of dollars) FISCAL YEAR 1986

Identification code 57-3300-0-1-051		Budget Plan (amounts for MILITARY CONSTRUCTION actions programed) 1989 actual	1990 est.	1991 est.	Obligations 1989 actual	1990 est.	1991 est.
	Program by activities:						
	Direct program:						
00.0101	Major construction				31,862	29,372	
00.0201	Minor construction				1,286	557	
00.0301	Planning				266	579	
00.0401	Supporting activities				506	2,745	
00.9101	Total direct program				33,920	33,253	
01.0101	Reimbursable program				1		
10.0001	Total				33,921	33,253	
	Financing:						
	Offsetting collections from:						
11.0001	Federal funds(-)				13		
17.0001	Recovery of prior year obligations				-151		
	Unobligated balance available, start of year:						
21.4002	For completion of prior year budget plans				-72,036	-33,253	
21.4009	Reprograming from/to prior year budget pla	-5,000					
22.4001	Unobligated balance transferred to other acc	5,000			5,000		
	Unobligated balance available, end of year:						
24.4002	For completion of prior year budget plans				33,253		
39.0001	Budget authority						

G-3

Military Construction, Air Force
Program and Financing (in Thousands of dollars) FISCAL YEAR 1987

Identification code 57-3300-0-1-051	Budget Plan (amounts for MILITARY CONSTRUCTION actions programed) 1989 actual	1990 est.	1991 est.	Obligations 1989 actual	1990 est.	1991 est.
Program by activities:						
Direct program:						
00.0101 Major construction				81,298	31,109	23,719
00.0201 Minor construction				1,163	41	320
00.0301 Planning				384	416	
00.0401 Supporting activities				2,631	2,246	414
10.0001 Total				85,476	33,812	24,453
Financing:						
17.0001 Recovery of prior year obligations				-123		
Unobligated balance available, start of year:						
21.4002 For completion of prior year budget plans				-143,918	-58,265	-24,453
21.4009 Reprograming from/to prior year budget pla	-300					
22.4001 Unobligated balance transferred to other acc	300			300		
Unobligated balance available, end of year:						
24.4002 For completion of prior year budget plans				58,265	24,453	
39.0001 Budget authority						

Military Construction, Air Force
Program and Financing (in Thousands of dollars) FISCAL YEAR 1988

Identification code 57-3300-0-1-051	Budget Plan (amounts for MILITARY CONSTRUCTION actions programed) 1989 actual	1990 est.	1991 est.	Obligations 1989 actual	1990 est.	1991 est.
Program by activities:						
Direct program:						
00.0101 Major construction				238,663	67,946	30,311
00.0201 Minor construction				4,949	473	480
00.0301 Planning				11,007	742	
00.0401 Supporting activities				3,728	5,436	291
10.0001 Total				258,347	74,597	31,082
Financing:						
17.0001 Recovery of prior year obligations				-372		
Unobligated balance available, start of year:						
21.4002 For completion of prior year budget plans				-422,413	-130,638	-56,041
21.4009 Reprograming from/to prior year budget pla	-33,800					
22.4001 Unobligated balance transferred to other acc	33,800			33,800		
Unobligated balance available, end of year:						
24.4002 For completion of prior year budget plans				130,638	56,041	24,959
39.0001 Budget authority						

Military Construction, Air Force
Program and Financing (in Thousands of dollars) FISCAL YEAR 1989

		Budget Plan (amounts for MILITARY CONSTRUCTION actions programed)			Obligations		
Identification code	57-3300-0-1-051	1989 actual	1990 est.	1991 est.	1989 actual	1990 est.	1991 est.
	Program by activities:						
	Direct program:						
00.0101	Major construction	1,075,186			758,882	227,673	58,881
00.0201	Minor construction	16,500			13,814	706	1,155
00.0301	Planning	155,740			108,284	28,767	10,901
00.9101	Total direct program	1,247,426			880,980	257,146	70,937
01.0101	Reimbursable program	803			803		
10.0001	Total	1,248,229			881,783	257,146	70,937
	Financing:						
	Offsetting collections from:						
11.0001	Federal funds(-)	-803			-803		
	Unobligated balance available, start of year:						
21.4002	For completion of prior year budget plans					-366,446	-109,300
21.4003	Available to finance new budget plans		-18,500			-18,500	
22.4001	Unobligated balance transferred to other acc	-50,000			-50,000		
	Unobligated balance available, end of year:						
24.4002	For completion of prior year budget plans				366,446	109,300	38,363
24.4003	Available to finance subsequent year budge	18,500			18,500		
39.0001	Budget authority	1,215,926	-18,500		1,215,926	-18,500	
	Budget authority:						
40.0001	Appropriation	1,225,926			1,225,926		
40.0017	Appropriation rescinded (unobligated balan		-18,500			-18,500	
41.0001	Transferred to other accounts(-)	-19,000			-19,000		
42.0001	Transferred from other accounts	9,000			9,000		
43.0001	Appropriation (adjusted)	1,215,926	-18,500		1,215,926	-18,500	

Military Construction, Air Force
Program and Financing (in Thousands of dollars) FISCAL YEAR 1990

		Budget Plan (amounts for MILITARY CONSTRUCTION actions programed)			Obligations		
Identification code	57-3300-0-1-051	1989 actual	1990 est.	1991 est.	1989 actual	1990 est.	1991 est.
	Program by activities:						
	Direct program:						
00.0101	Major construction		1,118,296			782,527	211,353
00.0201	Minor construction		7,000			3,500	3,500
00.0301	Planning		99,000			69,513	29,340
00.0401	Supporting activities		3,000			3,000	
00.9101	Total direct program		1,227,296			858,540	244,193
01.0101	Reimbursable program		6,000			6,000	
10.0001	Total		1,233,296			864,540	244,193
	Financing:						
	Offsetting collections from:						
11.0001	Federal funds(-)		-6,000			-6,000	
	Unobligated balance available, start of year:						
21.4002	. For completion of prior year budget plans						-368,756
	Unobligated balance available, end of year:						
24.4002	For completion of prior year budget plans					368,756	124,563
40.0001	Budget authority (Appropriation)		1,227,296			1,227,296	

6-7

Military Construction, Air Force
Program and Financing (in Thousands of dollars) FISCAL YEAR 1991

Identification code	57-3300-0-1-051	Budget Plan (amounts for MILITARY CONSTRUCTION actions programed)			Obligations		
		1989 actual	1990 est.	1991 est.	1989 actual	1990 est.	1991 est.
	Program by activities:						
	Direct program:						
00.0101	Major construction			1,239,187			867,879
00.0201	Minor construction			10,272			3,993
00.0301	Planning			107,741			75,937
00.0401	Supporting activities			19,000			16,010
00.9101	Total direct program			1,376,200			963,819
01.0101	Reimbursable program			3,000			3,000
10.0001	Total			1,379,200			966,819
	Financing:						
	Offsetting collections from:						
11.0001	Federal funds(-)			-3,000			-3,000
	Unobligated balance available, end of year:						
24.4002	For completion of prior year budget plans						412,381
40.0001	Budget authority (Appropriation)			1,376,200			1,376,200

Military Construction, Air Force
Program and Financing (in Thousands of dollars) SUMMARY

Identification code 57-3300-0-1-051	Budget Plan (amounts for MILITARY CONSTRUCTION actions programed) 1989 actual	1990 est.	1991 est.	Obligations 1989 actual	1990 est.	1991 est.
Program by activities:						
Direct program:						
00.0101 Major construction	1,075,186	1,118,296	1,239,187	1,131,743	1,138,627	1,192,143
00.0201 Minor construction	16,500	7,000	10,272	21,212	5,277	9,448
00.0301 Planning	155,740	99,000	107,741	120,153	100,017	116,178
00.0401 Supporting activities		3,000	19,000	6,984	13,427	16,715
00.9101 Total direct program	1,247,426	1,227,296	1,376,200	1,280,092	1,257,348	1,334,484
01.0101 Reimbursable program	803	6,000	3,000	804	6,000	3,000
10.0001 Total	1,248,229	1,233,296	1,379,200	1,280,896	1,263,348	1,337,484
Financing:						
Offsetting collections from:						
11.0001 Federal funds(-)	-803	-6,000	-3,000	-790	-6,000	-3,000
17.0001 Recovery of prior year obligations				-767		
Unobligated balance available, start of year:						
21.4002 For completion of prior year budget plans				-677,846	-588,602	-558,550
21.4003 Available to finance new budget plans		-18,500			-18,500	
21.4009 Reprograming from/to prior year budget pla	-57,332					
22.4001 Unobligated balance transferred to other acc	-1,237			-1,237		
Unobligated balance available, end of year:						
24.4002 For completion of prior year budget plans				588,602	558,550	600,266
24.4003 Available to finance subsequent year budge	18,500			18,500		
25.0001 Unobligated balance lapsing	8,569			8,569		
39.0001 Budget authority	1,215,926	1,208,796	1,376,200	1,215,926	1,208,796	1,376,200
Budget authority:						
40.0001 Appropriation	1,225,926	1,227,296	1,376,200	1,225,926	1,227,296	1,376,200
40.0017 Appropriation rescinded (unobligated balan		-18,500			-18,500	
41.0001 Transferred to other accounts(-)	-19,000			-19,000		
42.0001 Transferred from other accounts	9,000			9,000		
43.0001 Appropriation (adjusted)	1,215,926	1,208,796	1,376,200	1,215,926	1,208,796	1,376,200
Relation of obligations to outlays:						
71.0001 Obligations incurred, net				1,280,106	1,257,348	1,334,484
72.4001 Obligated balance, start of year				1,436,968	1,385,808	1,384,356
74.4001 Obligated balance, end of year				-1,385,808	-1,384,356	-1,460,540
77.0001 Adjustments in expired accounts (net)				7,719		
78.0001 Adjustments in unexpired accounts				-767		
90.0001 Outlays				1,338,218	1,258,800	1,258,300

G-9

Military Construction, Air Force
Object Classification (in Thousands of dollars) SUMMARY

Identification code 57-3300-0-1-051	1989 actual	1990 est.	1991 est.
Direct obligations:			
132.001 Land and structures	14,665	111,466	133,688
133.001 Investments and loans	399,111		
199.001 Total Direct obligations	413,776	111,466	133,688
Reimbursable obligations:			
232.001 Land and structures	804	6,000	3,000
299.001 Total Reimbursable obligations	804	6,000	3,000
Allocation Accounts			
Other services:			
325.004 Other	108,284	85,265	96,962
332.001 Land and structures	758,032	1,060,617	1,103,834
399.001 Total Allocation Accounts	866,316	1,145,882	1,200,796
999.901 Total obligations	1,280,896	1,263,348	1,337,484
Obligations are distributed as follows:			
Defense-Military:Army	896,627	884,343	936,239
Defense-Military:Navy	224,157	227,403	238,884
Defense-Military:Air Force	158,348	141,494	154,441
Department of Transportation	1,764	10,108	7,920
Total Obligations	1,280,896	1,263,348	1,337,484

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION GUNTER AIR FORCE BASE, ALABAMA	4. COMMAND AIR UNIVERSITY	5. AREA CONST COST INDEX 0.79

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 89	287	1079	868	1	193	22	4	34	34	2,522
b. End FY 1995	270	1075	888	1	193	22	4	34	34	2,521

7. INVENTORY DATA ($000)

a. Total Acreage: (368)	
b. Inventory Total As Of: (30 SEP 89)	46,872
c. Authorization Not Yet In Inventory:	21,200
d. Authorization Requested In This Program:	20,100
e. Authorization Included In Following Program: (FY 92)	15,914
f. Planned In Next Three Program Years:	14,350
g. Remaining Deficiency:	0
h. Grand Total:	118,436

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
171-000	ADD TO AND ALTER SENIOR NCO ACADEMY	LS	8,200	MAY 89	MAY 90
721-315	STUDENT DORMITORY	250 PN	8,800	MAY 89	MAR 90
724-417	STUDENT DORMITORY	60 PN	3,100	DEC 88	JAN 90
		TOTAL:	20,100		

9a. Future Projects: Included in the Following Program (FY 92)

131-111	ADD TO AND ALTER COMMUNICATIONS FACILITY	3,500 SF	400
610-281	TECHNOLOGY DEMONSTRATION FACILITY	14,400 SF	1,550
610-281	SOURCE SELECTION FACILITY	12,400 SF	1,350
610-281	LOGISTICS MANAGEMENT CENTER	35,000 SF	4,514
610-717	FIELD PRINTING PLANT	35,000 SF	2,900
722-351	AIRMEN DINING FACILITY	20,000 SF	5,200
		TOTAL:	15,914

9b. Future Projects: Typical Planned Next Three Years:

130-839	UPGRADE BASE ROADS	LS	2,000
721-312	ALTER DORMITORIES	304 PN	3,200
724-417	TRANSIENT DORMITORY	50 PN	2,400
730-771	CHAPEL	6,400 SF	2,500
740-674	PHYSICAL FITNESS CENTER	28,200 SF	4,250

10. Mission or Major Functions: Active mission suppport activities include the Standard Informations Systems Center; the Extension Course Institute, which is the Air Force-wide correspondence school. An Air Force Logistics Management Center; and the Air Force Senior NCO Academy.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION GUNTER AIR FORCE BASE, ALABAMA	4. PROJECT TITLE ADD TO AND ALTER SENIOR NCO ACADEMY

5. PROGRAM ELEMENT 8.57.96	6. CATEGORY CODE 171-000	7. PROJECT NUMBER JUBJ923049	8. PROJECT COST($000) 8,200

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ADD TO AND ALTER SENIOR NCO ACADEMY	LS			5,320
ADDITION	SF	46,800	100	(4,680)
ALTERATION	LS			(640)
SUPPORTING FACILITIES				1,750
UTILITIES	LS			(700)
PAVEMENTS	LS			(450)
SITE IMPROVEMENTS	LS			(325)
COMMUNICATIONS SUPPORT	LS			(275)
SUBTOTAL				7,070
CONTINGENCY (10%)				707
TOTAL CONTRACT COST				7,777
SUPERVISION, INSPECTION AND OVERHEAD (6%)				467
TOTAL REQUEST				8,244
TOTAL REQUEST (ROUNDED)				8,200

10. Description of Proposed Construction: Reinforced concrete foundation and floor slab, structural steel, masonry walls, roof system and other necessary support. Air Conditioning: 200 Tons.

11. REQUIREMENT: 102,300 SF ADEQUATE: 55,500 SF SUBSTANDARD: 0

PROJECT: Add to and alter an academic facility for the Senior Noncommissioned Officer Academy (SNCOA). (Current Mission)

REQUIREMENT: Additional space to conduct Professional Military Education for the Senior Noncommissioned Officer. This education enhances their effectiveness as managers and instills leadership principles vital to an effective fighting force.

CURRENT SITUATION: The SNCOA mission is expanding dramatically. The number of students per class is increasing from 250 to 500. Total students per year will increase from 1980 to 3000. Seminars will increase from 26 to 40. Existing auditorium, administrative space, classroom and support areas are inadequate for the expanding student, instructor and staff populations.

IMPACT IF NOT PROVIDED: The SNCOA will not be able to handle the increase in student enrollment. Over one-third of the required senior NCO's will not receive high quality professional military education programs necessary to support the overall Air Force mission.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

DD FORM 1391, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION GUNTER AIR FORCE BASE, ALABAMA		
4. PROJECT TITLE ADD TO AND ALTER SENIOR NCO ACADEMY		5. PROJECT NUMBER JUBJ923049

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 MAY 23
(b) Percent Complete as of Jan 90	50%
(c) Date 35% Designed	89 SEP 15
(d) Date Design Complete	90 MAY 31
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	230
(b) All Other Design Costs	80
(c) Total	310
(d) Contract	245
(e) In-house	65
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION GUNTER AIR FORCE BASE, ALABAMA	4. PROJECT TITLE STUDENT DORMITORY

5. PROGRAM ELEMENT 8.57.96	6. CATEGORY CODE 721-315	7. PROJECT NUMBER JUBJ923045	8. PROJECT COST($000) 8,800

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
STUDENT DORMITORY (250 PN)	SF	85,000	81	6,885
SUPPORTING FACILITIES				1,060
UTILITIES	LS			(380)
PAVEMENTS	LS			(350)
SITE IMPROVEMENTS	LS			(330)
SUBTOTAL				7,945
CONTINGENCY (5%)				397
TOTAL CONTRACT COST				8,342
SUPERVISION, INSPECTION AND OVERHEAD (6%)				501
TOTAL REQUEST				8,843
TOTAL REQUEST (ROUNDED)				8,800

10. Description of Proposed Construction: Reinforced concrete foundations and floor slabs, structural frames, walls, roof system and other necessary support.
Air Conditioning: 283 Tons. Grade Mix: 250 E7-E9.

11. REQUIREMENT: 500 PN ADEQUATE: 250 PN SUBSTANDARD: 0

PROJECT: Construct student Senior NCO Academy (SNCOA) dormitory. (Current Mission)

REQUIREMENT: Adequate living quarters are required to accommodate 250 Senior Noncommissioned Officers that serve temporary duty at Gunter AFB as students of the SNCOA. On-base quarters are required, and it is imperative that these personnel are provided a comfortable and healthful environment conducive to proper rest and individual well-being. The SNCOA student load will increase from 250 to 500 (an addition of 250 students) per class starting 1 Oct 93.

CURRENT SITUATION: Present capacity of existing dormitories is insufficient to house the proposed increase in enlisted personnel attending the SNCOA. Off-base quarters separate the students from technical libraries and their support facilities, which is a detriment to a good training environment. On-base quarters are required to support the intensive academic schedule. This project will provide the space to properly house the increase in students.

IMPACT IF NOT PROVIDED: Adequate living quarters for the increased number of students attending the SNCOA will be unavailable. Lack of quarters will prevent the expansion of the school and the Air Force would lose the benefits of this education.

ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION GUNTER AIR FORCE BASE, ALABAMA		
4. PROJECT TITLE STUDENT DORMITORY		5. PROJECT NUMBER JUBJ923045

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 MAY 09
(b) Percent Complete as of Jan 90	75%
(c) Date 35% Designed	89 AUG 13
(d) Date Design Complete	90 MAR 24
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	255
(b) All Other Design Costs	130
(c) Total	385
(d) Contract	195
(e) In-house	190
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION GUNTER AIR FORCE BASE, ALABAMA	4. PROJECT TITLE STUDENT DORMITORY

5. PROGRAM ELEMENT 8.57.96	6. CATEGORY CODE 724-417	7. PROJECT NUMBER PNQS923011	8. PROJECT COST($000) 3,100

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
STUDENT DORMITORY (60 PN)	SF	31,000		2,215
DORMITORY	SF	28,800	72	(2,074)
STORAGE	SF	2,200	64	(141)
SUPPORTING FACILITIES				570
PAVEMENTS	LS			(115)
SITE IMPROVEMENTS	LS			(100)
UTILITIES	LS			(205)
COMMUNICATIONS SUPPORT	LS			(150)
SUBTOTAL				2,785
CONTINGENCY (5%)				139
TOTAL CONTRACT COST				2,924
SUPERVISION, INSPECTION AND OVERHEAD (6%)				175
TOTAL REQUEST				3,099
TOTAL REQUEST (ROUNDED)				3,100

10. Description of Proposed Construction: Reinforced concrete foundation and floor slab, structural frame, walls, and roof system. Includes individual entrances to quarters, bedrooms, and other necessary support. Air Conditioning: 70 Tons. Grade Mix: 10 O1-O2; 50 O3-O10.

11. REQUIREMENT: 158 PN ADEQUATE: 50 PN SUBSTANDARD: 108 PN

PROJECT: Construct a student dormitory. (Current Mission)

REQUIREMENT: Adequate living quarters to accommodate student officers and officer grade civilian personnel attending training at Gunter AFB. Training courses are conducted by the Civilian Personnel Development Center and the Standard Information Systems Center. On-base quarters are needed to assure these personnel are provided a comfortable and healthful environment conducive to proper rest and individual well-being and are also provided access to specialized study materials.

CURRENT SITUATION: Present capacity is totally inadequate to house the student TDY requirements for the two centers. Off-base quarters separate the students from technical libraries and their support facilities, which is detrimental to good training. This project will provide the second of three phases to properly house these student personnel and will permit the disposal of three substandard facilities.

IMPACT IF NOT PROVIDED: Adequate living quarters for these personnel will continue to be unavailable. This will adversely affect their morale and the overall training mission.

ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION GUNTER AIR FORCE BASE, ALABAMA		
4. PROJECT TITLE STUDENT DORMITORY		5. PROJECT NUMBER PNOS923011

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 DEC 15
(b) Percent Complete as of Jan 90	95%
(c) Date 35% Designed	89 APR 14
(d) Date Design Complete	90 JAN 17
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	159
(b) All Other Design Costs	
(c) Total	159
(d) Contract	159
(e) In-house	
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION MAXWELL AIR FORCE BASE, ALABAMA	4. COMMAND AIR UNIVERSITY	5. AREA CONST COST INDEX 0.79

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 89	901	1535	1651	1564	46	14			98	5,809
b. End FY 1995	899	1548	1657	1551	46	14			98	5,813

7. INVENTORY DATA ($000)

a. Total Acreage: (2,503)	
b. Inventory Total As Of: (30 SEP 89)	101,530
c. Authorization Not Yet In Inventory:	32,600
d. Authorization Requested In This Program:	22,500
e. Authorization Included In Following Program: (FY 92)	3,000
f. Planned In Next Three Program Years:	55,300
g. Remaining Deficiency:	0
h. Grand Total:	214,930

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
130-835	ADD TO AND ALTER SECURITY POLICE OPERATIONS FACILITY	13,700 SF	1,750	APR 86	NOV 87
131-111	COMMUNICATIONS GROUP COMPLEX	38,700 SF	5,300	DEC 88	JAN 90
171-000	JUDGE ADVOCATE GENERAL ACADEMIC FACILITY	56,500 SF	7,700	MAY 89	JUN 90
724-417	ALTER STUDENT DORMITORIES	164 PN	2,750	MAR 88	FEB 90
724-417	STUDENT DORMITORY	100 PN	5,000	MAY 89	MAY 90
		TOTAL:	22,500		

9a. Future Projects: Included in the Following Program (FY 92)

724-417	ALTER STUDENT QUARTERS PHASE III	49,200 SF	3,000
		TOTAL:	3,000

9b. Future Projects: Typical Planned Next Three Years:

171-851	PROFESSIONAL DEVELOPMENT COMPLEX	80,000 SF	8,300
171-851	ADD TO AND ALTER AU PROFESSIONAL/TECH EDUCATION	18,000 SF	2,500
724-417	ALTER STUDENT QUARTERS PHASE III	162 PN	3,300
730-772	RELIGIOUS EDUCATION FACILITY	4,000 SF	1,000
851-147	UPGRADE BASE ROADS	LS	3,250

10. Mission or Major Functions: Supports a major command headquarters - Air University (AU)- and is the Air Force professional education center. Major units include AU, Air War College, Air Command and Staff College, Squadron Officers School, Leadership and Management Development Center, Headquarters - ROTC, Civil Air Patrol - USAF. Also hosts a USAF Regional Hospital and an Air Force Reserve tactical airlift squadron.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION MAXWELL AIR FORCE BASE, ALABAMA	4. PROJECT TITLE ADD TO AND ALTER SECURITY POLICE OPERATIONS FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
8.57.96	130-835	PNOS872086	1,750

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ADD TO AND ALTER SECURITY POLICE OPERATIONS FACILITY	SF	13,700		1,148
ADDITION	SF	8,200	95	(779)
ALTERATION	SF	5,500	67	(369)
SUPPORTING FACILITIES				430
UTILITIES	LS			(190)
PAVEMENTS	LS			(60)
SITE IMPROVEMENTS	LS			(50)
COMMUNICATIONS SUPPORT	LS			(50)
DOG KENNEL ALTERATIONS	LS			(80)
SUBTOTAL				1,578
CONTINGENCY (5%)				79
TOTAL CONTRACT COST				1,657
SUPERVISION, INSPECTION AND OVERHEAD (6%)				99
TOTAL REQUEST				1,756
TOTAL REQUEST (ROUNDED)				1,750

10. Description of Proposed Construction: Concrete foundation and floor slab, structural steel frame, masonry walls and roof system. All electrical, mechanical, and structural work necessary to upgrade the existing facility. All utilities and necessary support.
Air Conditioning: 40 Tons.

11. REQUIREMENT: 13,700 SF ADEQUATE: 0 SUBSTANDARD: 10,900 SF

PROJECT: Construct an addition to and alter a security police operations facility. (Current Mission)

REQUIREMENT: An adequate facility to accommodate control functions, law enforcement, resource protection, base information security and primary command and control for all security police operations. Additionally, secure rooms are required for the storage of weapons, ammunition and related law enforcement equipment.

CURRENT SITUATION: Security police operations are currently being conducted from two widely separated facilities making command and control extremely difficult while degrading productivity. One of these facilities is structurally and functionally inadequate. The present configuration of the buildings and the great distance separating security police offices significantly hampers operations and security. The administrative facility is located approximately 1.5 miles from the operations functions. The air conditioning, plumbing, and heating systems in these facilities are inadequate, and the facilities are not energy efficient. This project will provide a facility to enhance security police operations and will permit the disposal of one substandard facility.

IMPACT IF NOT PROVIDED: The security police organization will be forced to operate from two separate, functionally inadequate facilities which have exceeded their life expectancy.

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION MAXWELL AIR FORCE BASE, ALABAMA		
4. PROJECT TITLE ADD TO AND ALTER SECURITY POLICE OPERATIONS FACILITY		5. PROJECT NUMBER PNOS872086

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION

MAXWELL AIR FORCE BASE, ALABAMA

4. PROJECT TITLE ADD TO AND ALTER SECURITY POLICE OPERATIONS FACILITY	5. PROJECT NUMBER PNOS872086

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	86 APR 21
(b) Percent Complete as of Jan 90	100%
(c) Date 35% Designed	86 OCT 17
(d) Date Design Complete	87 NOV 24
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	188
(b) All Other Design Costs	36
(c) Total	224
(d) Contract	139
(e) In-house	85
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION MAXWELL AIR FORCE BASE, ALABAMA	4. PROJECT TITLE COMMUNICATIONS GROUP COMPLEX

5. PROGRAM ELEMENT 8.57.96	6. CATEGORY CODE 131-111	7. PROJECT NUMBER PNOS903003	8. PROJECT COST($000) 5,300

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
COMMUNICATIONS GROUP COMPLEX	SF	38,700	97	3,754
SUPPORTING FACILITIES				1,040
UTILITIES	LS			(185)
PAVEMENTS	LS			(100)
SITE IMPROVEMENTS	LS			(300)
TEMPEST SHIELDING	LS			(300)
FIRE PROTECTION	LS			(100)
COMMUNICATIONS SUPPORT	LS			(55)
SUBTOTAL				4,794
CONTINGENCY (5%)				240
TOTAL CONTRACT COST				5,034
SUPERVISION, INSPECTION AND OVERHEAD (6%)				302
TOTAL REQUEST				5,336
TOTAL REQUEST (ROUNDED)				5,300

10. Description of Proposed Construction: Concrete foundation and floor slab, poured concrete reinforced walls, structural steel frame and roof system. Includes data processing, communications and maintenance space and all necessary support. Air Conditioning: 150 Tons.

11. REQUIREMENT: 38,700 SF ADEQUATE: 0 SUBSTANDARD: 51,050 SF

PROJECT: Construct a communications group complex. (Current Mission)

REQUIREMENT: An adequate facility to support base level data processing, telecommunications, systems development and communication maintenance. This facility will support Air University communication and computer needs.

CURRENT SITUATION: These functions are currently housed in all or part of six substandard facilities. These buildings are over 40 years old and were not designed for communication functions, leading to ineffective use of space. The buildings are spread apart, hindering management, operational and maintenance duties and causing excessive travel time between functions. Five of these WWII vintage buildings will be demolished upon completion of this project.

IMPACT IF NOT PROVIDED: Without this project, the present communication mission will continue to deteriorate, resulting in the loss of equipment responsiveness and reliability in support of the base mission.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION MAXWELL AIR FORCE BASE, ALABAMA		
4. PROJECT TITLE COMMUNICATIONS GROUP COMPLEX		5. PROJECT NUMBER PNQS903003

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 DEC 15
(b) Percent Complete as of Jan 90	95%
(c) Date 35% Designed	89 SEP 10
(d) Date Design Complete	90 JAN 17
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) [illegible]) or (d) + (e):	($000)
(a) Production of Plans and Specifications	342
(b) All Other Design Costs	37
(c) Total	379
(d) Contract	318
(e) In-house	61
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION MAXWELL AIR FORCE BASE, ALABAMA	4. PROJECT TITLE JUDGE ADVOCATE GENERAL ACADEMIC FACILITY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
8.57.96	171-000	PNOS923041	7,700

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
JUDGE ADVOCATE GENERAL ACADEMIC FACILITY	SF	56,500	97	5,481
SUPPORTING FACILITIES				1,470
SITE IMPROVEMENTS	LS			(290)
UTILITIES	LS			(410)
PAVEMENTS	LS			(300)
COMMUNICATIONS SUPPORT	LS			(100)
DEMOLITION	LS			(370)
SUBTOTAL				6,951
CONTINGENCY (5%)				348
TOTAL CONTRACT COST				7,299
SUPERVISION, INSPECTION AND OVERHEAD (6%)				438
TOTAL REQUEST				7,737
TOTAL REQUEST (ROUNDED)				7,700

10. Description of Proposed Construction: Concrete foundations and floor slabs, masonry walls, structural steel frame, hip roof with clay tile. Includes parking, fire protection and other necessary support.
Air Conditioning: 200 Tons.

11. REQUIREMENT: 56,500 SF ADEQUATE: 0 SUBSTANDARD: 11,750 SF

PROJECT: Construct a Judge Advocate General (JAG) academic facility. (Current Mission)

REQUIREMENT: An adequate facility in which to conduct legal education, research, planning, and information management. The facility will house classrooms, lecture auditoriums, computer training facilities, law library, moot courtrooms, dedicated computer/information management facilities and support areas. The expanded mission of AFJAG School and other Judge Advocate General functions requires a separate, larger facility to eliminate inefficiencies.

CURRENT SITUATION: The JAG of the Air Force has reorganized combining professional legal education, departmental research and planning, and Air Force wide legal services under a single office located at Maxwell as part of the Air University Community. The AFJAG School with 21 assigned personnel has neither the manpower nor the space to satisfactorily perform its educational mission into the early 1990's, let alone serve as a platform upon which to build the proposed organization. Present facilities are too small for the school's current mission and the problem will be compounded with the addition of new responsibilities. This space will be used by other academic activities upon completion of this project.

IMPACT IF NOT PROVIDED: Without this project, the newly created Center for Education, Research, Planning, and Information cannot satisfactorily perform its mission. Proposed educational programs will not be realized.

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION MAXWELL AIR FORCE BASE, ALABAMA		
4. PROJECT TITLE JUDGE ADVOCATE GENERAL ACADEMIC FACILITY		5. PROJECT NUMBER PNOS923041

and existing programs will be taught under inadequate, inefficient, and functionally constrained conditions. In addition, integrated departmental research, planning and legal information management will be unavailable to those in the field dependent on these services.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION MAXWELL AIR FORCE BASE, ALABAMA		
4. PROJECT TITLE JUDGE ADVOCATE GENERAL ACADEMIC FACILITY		5. PROJECT NUMBER PNOS923041

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 MAY 23
(b) Percent Complete as of Jan 90	60%
(c) Date 35% Designed	89 SEP 15
(d) Date Design Complete	90 JUN 30
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	255
(b) All Other Design Costs	130
(c) Total	385
(d) Contract	195
(e) In-house	190
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION MAXWELL AIR FORCE BASE, ALABAMA	4. PROJECT TITLE ALTER STUDENT DORMITORIES

5. PROGRAM ELEMENT 8.57.96	6. CATEGORY CODE 724-417	7. PROJECT NUMBER PNOS892112	8. PROJECT COST($000) 2,750

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ALTER STUDENT DORMITORIES (164 PN)	SF	49,200	44	2,165
SUPPORTING FACILITIES				205
UTILITIES	LS			(15)
SITE IMPROVEMENTS	LS			(30)
COMMUNICATIONS SUPPORT	LS			(160)
SUBTOTAL				2,370
CONTINGENCY (10%)				237
TOTAL CONTRACT COST				2,607
SUPERVISION, INSPECTION AND OVERHEAD (6%)				156
TOTAL REQUEST				2,763
TOTAL REQUEST (ROUNDED)				2,750

10. Description of Proposed Construction: All structural, electrical and mechanical work necessary to upgrade two facilities. Includes windows, centralized laundries and kitchens, new carpeting and finishes.
Grade Mix: 164 01-03.

11. REQUIREMENT: 816 PN ADEQUATE: 164 PN SUBSTANDARD: 652 PN

PROJECT: Alter two student dormitories. (Current Mission)

REQUIREMENT: A major Air Force objective is to provide unaccompanied officer personnel with housing that will be conducive to their proper rest, relaxation and personal well-being. Properly designed and furnished quarters which provide some degree of individual privacy are essential to the successful accomplishment of the increasingly complicated and important training these people must receive.

CURRENT SITUATION: Most of the existing squadron officers school (SOS) spaces are inadequate by current living standards. The quarters were constructed thirty years ago and are essentially the same as when constructed. Inadequate lighting, poor insulation and sound attenuation, obsolete electrical and mechanical systems and lack of privacy are the main inadequacies of these facilities. An FY 1989 MILCON project will do the first two buildings. This project is phase two of the multi-phased program to alter all the SOS spaces.

IMPACT IF NOT PROVIDED: Substandard living conditions will persist at the base and the morale, productivity and career satisfaction of the officer force will continue to be degraded.

ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

DD FORM 1391, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION MAXWELL AIR FORCE BASE, ALABAMA		
4. PROJECT TITLE ALTER STUDENT DORMITORIES		5. PROJECT NUMBER PNOS892112

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 MAR 31
(b) Percent Complete as of Jan 90	95%
(c) Date 35% Designed	88 JUN 27
(d) Date Design Complete	90 FEB 15
(2) Basis:	
(a) Standard or Definitive Design -	YES
(b) Where Design Was Most Recently Used -	MAXWELL
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	141
(b) All Other Design Costs	10
(c) Total	151
(d) Contract	106
(e) In-house	45
(4) Construction Start	91 JAN

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION MAXWELL AIR FORCE BASE, ALABAMA	4. PROJECT TITLE STUDENT DORMITORY

5. PROGRAM ELEMENT 8.57.96	6. CATEGORY CODE 724-417	7. PROJECT NUMBER PNOS923042	8. PROJECT COST($000) 5,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
STUDENT DORMITORY (100 PN)	SF	48,000	72	3,456
SUPPORTING FACILITIES				1,025
UTILITIES	LS			(475)
PAVEMENTS	LS			(250)
SITE IMPROVEMENTS	LS			(300)
SUBTOTAL				4,481
CONTINGENCY (5%)				224
TOTAL CONTRACT COST				4,705
SUPERVISION, INSPECTION AND OVERHEAD (6%)				282
TOTAL REQUEST				4,987
TOTAL REQUEST (ROUNDED)				5,000

10. Description of Proposed Construction: Reinforced concrete foundation and floor slab, structural frame, walls, roof system and necessary support. Provide a parking lot with drainage and street improvements. Air Conditioning: 160 Tons. Grade Mix: 50 01-03; 50 04-010.

11. REQUIREMENT: 1,100 PN ADEQUATE: 850 PN SUBSTANDARD: 0

PROJECT: Construct a student dormitory for the Judge Advocate School. (Current Mission)

REQUIREMENT: Adequate living quarters to accommodate student officers and officer grade civilian personnel that serve temporary duty (TDY) at Maxwell AFB for training courses provided in association with the Judge Advocate General School. On-base quarters are needed to assure these personnel are provided a comfortable and healthful environment conducive to proper rest and individual well-being.

CURRENT SITUATION: Present capacity is totally inadequate to house the increased student TDY requirements due to the construction of the new Judge Advocate General School. Off-base quarters separate the students from technical libraries and their support facilities, which is detrimental to a good training environment. This project will provide the space to properly house these student personnel.

IMPACT IF NOT PROVIDED: Adequate living quarters for these personnel will continue to be unavailable, which will adversely affect their morale and the overall training mission.

ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION MAXWELL AIR FORCE BASE, ALABAMA		
4. PROJECT TITLE STUDENT DORMITORY		5. PROJECT NUMBER PNQS923042

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 MAY 23
(b) Percent Complete as of Jan 90	50%
(c) Date 35% Designed	89 SEP 15
(d) Date Design Complete	90 MAY 31
(2) Basis:	
(a) Standard or Definitive Design -	
(b) Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	225
(b) All Other Design Costs	75
(c) Total	300
(d) Contract	160
(e) In-house	140
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION CLEAR AIR FORCE STATION, ALASKA	4. COMMAND AIR FORCE SPACE COMMAND	5. AREA CONST COST INDEX 2.78

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 89	13	101	68							182
b. End FY 1995	13	101	68							182

7. INVENTORY DATA ($000)

a. Total Acreage: (11,438)	
b. Inventory Total As Of: (30 SEP 89)	66,205
c. Authorization Not Yet In Inventory:	4,500
d. Authorization Requested In This Program:	5,000
e. Authorization Included In Following Program: (FY 92)	0
f. Planned In Next Three Program Years:	4,000
g. Remaining Deficiency:	0
h. Grand Total:	79,705

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
721-312	ALTER DORMITORY, PHASE II	139 PN	5,000	NOV 88	DEC 89
		TOTAL:	5,000		

9a. Future Projects: Included in the Following Program (FY 92) NONE

9b. Future Projects: Typical Planned Next Three Years:

130-142	FIRE STATION	10,000 SF	4,000

10. Mission or Major Functions: 13th Missile Warning Squadron supporting Site 2 for the Ballistic Missile Early Warning System (BMEWS).

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION CLEAR AIR FORCE STATION, ALASKA	4. PROJECT TITLE ALTER DORMITORY, PHASE II

5. PROGRAM ELEMENT 1.24.96	6. CATEGORY CODE 721-312	7. PROJECT NUMBER DXEB890026	8. PROJECT COST($000) 5,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ALTER DORMITORY, PHASE II (139 PN)	SF	38,200	94	3,591
SUPPORTING FACILITIES				715
UTILITIES	LS			(590)
COMMUNICATIONS SUPPORT	LS			(125)
SUBTOTAL				4,306
CONTINGENCY (10%)				431
TOTAL CONTRACT COST				4,737
SUPERVISION, INSPECTION AND OVERHEAD (6%)				284
TOTAL REQUEST				5,021
TOTAL REQUEST (ROUNDED)				5,000

10. Description of Proposed Construction: Includes windows, semiprivate baths, centralized laundries and kitchens, and necessary electrical and mechanical support. Grade Mix: 127 E5-E6; 12 E7-E9.

11. REQUIREMENT: 443 PN ADEQUATE: 73 PN SUBSTANDARD: 444 PN

PROJECT: Alter dormitory. (Current Mission)

REQUIREMENT: A major Air Force objective provides unaccompanied personnel with housing conducive to their proper rest, relaxation and personal well-being. Properly designed and furnished quarters providing some degree of individual privacy are essential to the successful accomplishment of the increasingly complicated and important jobs these people must perform.

CURRENT SITUATION: The facility to be altered was built in the late 1950's and does not meet current Air Force standards. Existing dormitory has central latrines, inadequate control of heating, insufficient noise attenuation and lacks the necessary amenities to adequately house personnel. Personnel must spend the majority of of their off-duty time indoors due to the severe arctic environments. This is Phase II of a three-phase program.

IMPACT IF NOT PROVIDED: Substandard living conditions on base will continue to degrade the morale, productivity and career satisfaction.

ADDITIONAL: An economic analysis was prepared comparing alternatives of new construction, revitalization, and status quo. Based on the net present value and benefits of the respective alternatives, this alternative was found to be the most cost efficient over the life of the project. This project is less than the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide" due to the interior configuration of the facility.

DD FORM 1391, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION CLEAR AIR FORCE STATION, ALASKA		
4. PROJECT TITLE ALTER DORMITORY, PHASE II		5. PROJECT NUMBER DXEB890026

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 NOV 15
(b) Percent Complete as of Jan 90	100%
(c) Date 35% Designed	89 JUN 17
(d) Date Design Complete	89 DEC 15
(2) Basis:	
(a) Standard or Definitive Design -	YES
(b) Where Design Was Most Recently Used -	CLEAR
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	250
(b) All Other Design Costs	75
(c) Total	325
(d) Contract	225
(e) In-house	100
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION EIELSON AIR FORCE BASE, ALASKA	4. COMMAND ALASKAN AIR COMMAND	5. AREA CONST COST INDEX 2.06

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 88	349	3131	349	28	29					3,886
b. End FY 1994	341	3123	347	28	29					3,868

7. INVENTORY DATA ($000)

a. Total Acreage: (19,964)	
b. Inventory Total As Of: (30 SEP 89)	319,787
c. Authorization Not Yet In Inventory:	97,835
d. Authorization Requested In This Program:	12,400
e. Authorization Included In Following Program: (FY 92)	14,850
f. Planned In Next Three Program Years:	69,100
g. Remaining Deficiency:	0
h. Grand Total:	513,972

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
831-165	UPGRADE SEWAGE TREATMENT PLANT	19,200 SF	12,400	MAR 89	JUL 90
		TOTAL:	12,400		

9a. Future Projects: Included in the Following Program (FY 92)

171-621	ARCTIC SURVIVAL TRAINING SCHOOL	11,700 SF	2,650
724-417	TRANSIENT PERSONNEL QUARTERS	79,500 SF	12,200
		TOTAL:	14,850

9b. Future Projects: Typical Planned Next Three Years:

121-122	HYDRANT FUELING SYSTEM	10 OL	18,000
141-456	ADD TO ALTER OPERATIONS FACILITY	15,500 SF	3,700
218-712	AIRCRAFT SUPPORT EQUIPMENT FACILITY	19,500 SF	4,250
219-944	BASE ENGINEERING COMPLEX	16,400 SF	3,600
841-169	UPGRADE WATER TREATMENT PLANT	LS	3,750

10. Mission or Major Functions: Base supports a tactical air support squadron with OA -10 aircraft, responsible for control of operational air-to-ground missions; a tactical fighter squadron with A-10 aircraft; a Strategic Air Command operational RC-135 unit performing strategic reconnaissance activities; and a Strategic Air Command KC-135 unit maintaining an air refueling force on a rotational basis.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	2,000
c. Occupational safety and health:	0

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION EIELSON AIR FORCE BASE, ALASKA	4. PROJECT TITLE UPGRADE SEWAGE TREATMENT PLANT

5. PROGRAM ELEMENT 1.28.96	6. CATEGORY CODE 831-165	7. PROJECT NUMBER FTQW920003	8. PROJECT COST($000) 12,400

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ADD TO AND ALTER SEWAGE TREATMENT PLANT	SF	19,200		10,536
ADDITION	SF	4,200	1,080	(4,536)
TREATMENT FACILITY	SF	15,000	400	(6,000)
SUBTOTAL				10,536
CONTINGENCY (10%)				1,054
TOTAL CONTRACT COST				11,590
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				753
TOTAL REQUEST				12,343
TOTAL REQUEST (ROUNDED)				12,400

10. Description of Proposed Construction: A sanitary sewage pretreatment house, raw wastewater, flow monitoring and controlling equipment. Includes rotating biological contactors, effluent chlorination and other necessary support.

11. REQUIREMENT: As required.
PROJECT: Add to and alter the sewage treatment plant. (Current Mission)
REQUIREMENT: A sewage treatment plant to meet current Federal, State and local discharge parameters and National Pollutant Discharge Elimination System (NPDES) permits.
CURRENT SITUATION: Effluent water quality is below required Federal Water Quality Standards and does not comply with the NPDES permit for a sewage water treatment plant. The existing facility was constructed in 1952 and has never been upgraded. Pumps, motors and major control valves are over 30 years old and approaching the end of their useful life. Maintenance is increasing while repair and replacement parts are becoming impossible to obtain. The plant is undersized and inadequate, lacking proper flow metering and control. The laboratory is inadequate to perform water quality tests, and the equipment maintenance shop is undersized for both current and projected needs. The addition of 300 new Military Family Housing units overloads capacity of the system. The nearest commercial treatment plant is ten miles from the base and is unable to support both the base and its local customers without extensive upgrade.
IMPACT IF NOT PROVIDED: This facility will continue to discharge water exceeding NPDES parameters. The plant is vulnerable to long-term service interruptions caused by a combination of unreliable, worn-out equipment and hard-to-find replacement parts. Such interruptions would leave the base unable to treat wastewater, resulting in the contamination of local

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION EIELSON AIR FORCE BASE, ALASKA		
4. PROJECT TITLE UPGRADE SEWAGE TREATMENT PLANT		5. PROJECT NUMBER FTQW920003

streams and water table.
ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION EIELSON AIR FORCE BASE, ALASKA		
4. PROJECT TITLE UPGRADE SEWAGE TREATMENT PLANT		5. PROJECT NUMBER FTQW920003

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 MAR 16
(b) Percent Complete as of Jan 90	35%
(c) Date 35% Designed	89 JUL 31
(d) Date Design Complete	90 JUL 01
(2) Basis:	
(a) Standard or Definitive Design -	YES
(b) Where Design Was Most Recently Used -	SHEMYA
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	900
(b) All Other Design Costs	150
(c) Total	1050
(d) Contract	900
(e) In-house	150
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION GALENA AIRPORT, ALASKA	4. COMMAND ALASKAN AIR COMMAND	5. AREA CONST COST INDEX 3.35

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 89	10	304	16							330
b. End FY 1995	10	302	16							328

7. INVENTORY DATA ($000)

a. Total Acreage: (182)	
b. Inventory Total As Of: (30 SEP 89)	49,137
c. Authorization Not Yet In Inventory:	7,199
d. Authorization Requested In This Program:	8,700
e. Authorization Included In Following Program: (FY 92)	0
f. Planned In Next Three Program Years:	15,900
g. Remaining Deficiency:	0
h. Grand Total:	80,936

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
219-944	VEHICLE MAINTENANCE FACILITY	34,700 SF	8,700	AUG 89	APR 91
		TOTAL:	8,700		

9a. Future Projects: Included in the Following Program (FY 92) NONE

9b. Future Projects: Typical Planned Next Three Years:

219-944	BASE ENGINEER FACILITY	35,500 SF	9,800
841-427	UPGRADE WATER DISTRIBUTION SYSTEM	LS	6,100

10. Mission or Major Functions: Galena is an air defense alert base and provides forward alert for the 43rd Tactical Fighter Squadron (F-15s) under the Alaskan Air Command.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION GALENA AIRPORT, ALASKA	4. PROJECT TITLE VEHICLE MAINTENANCE COMPLEX

5. PROGRAM ELEMENT 1.28.96	6. CATEGORY CODE 219-944	7. PROJECT NUMBER HPZW890402	8. PROJECT COST($000) 8,700

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
VEHICLE MAINTENANCE COMPLEX	SF	34,700	210	7,287
SUPPORTING FACILITIES				530
UTILITIES	LS			(295)
SITE IMPROVEMENTS	LS			(190)
DEMOLITION	LS			(45)
SUBTOTAL				7,817
CONTINGENCY (5%)				391
TOTAL CONTRACT COST				8,208
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				534
TOTAL REQUEST				8,742
TOTAL REQUEST (ROUNDED)				8,700

10. Description of Proposed Construction: Concrete footings, foundation and floor slab, structural steel frame and roof system and all other necessary support.

11. REQUIREMENT: 34,700 SF ADEQUATE: 0 SUBSTANDARD: 11,136 SF

PROJECT: Construct a vehicle maintenance complex. (Current Mission)

REQUIREMENT: An adequate facility to provide sufficient vehicle maintenance space, covered, heated parking in support of the F-15 interceptor mission at Galena Airport.

CURRENT SITUATION: The existing vehicle maintenance facility is the worst building on base. The facility lacks sufficient insulation and is not energy efficient. The electrical system needs to be completely replaced and the entire building requires constant repair. Water leaks through the walls and freezes along the electrical wiring and lighting fixtures, creating an extremely hazardous situation. The building is located in a low spot which floods during "spring breakup" and rainy periods. There is insufficient ventilation to eliminate vehicle exhaust. Vehicle maintenance is now conducted in an one third of the authorized space alloted for this function. Of the 27 mission essential vehicles requiring heated parking, only 11 can be accommodated, resulting in reduced readiness and excessive response times to support the mission. Maintenance bays, body repair areas and offices are significantly undersized, while tools and supplies are stored outside. The existing facility does not have a "drive-thru" capability, requiring that vehicles be moved several times while being repaired. This facility will be demolished upon completion of this project.

IMPACT IF NOT PROVIDED: The transportation organization will continue to operate out of the worst facility on base. Winter temperatures below -50

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION GALENA AIRPORT, ALASKA		
4. PROJECT TITLE VEHICLE MAINTENANCE COMPLEX		5. PROJECT NUMBER HPZW890402

degrees F frequently prevent snow removal and other emergency response vehicles from operating to support the F-15 interceptor mission. Starting diesel engine vehicles will continue to be a major problem in extremely cold temperatures. Personnel will continue to be required to work in cramped and unsafe working conditions, adversely affecting morale. Inadequate maintenance and heated parking capacity will also hamper operations and degrade mission support and readiness.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION

GALENA AIRPORT, ALASKA

4. PROJECT TITLE VEHICLE MAINTENANCE COMPLEX	5. PROJECT NUMBER HPZW890402

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 AUG 15
(b) Percent Complete as of Jan 90	35%
(c) Date 35% Designed	90 JAN 15
(d) Date Design Complete	91 APR 01
(2) Basis:	
(a) Standard or Definitive Design -	YES
(b) Where Design Was Most Recently Used -	SHEMYA
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	522
(b) All Other Design Costs	87
(c) Total	609
(d) Contract	522
(e) In-house	87
(4) Construction Start	91 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION KING SALMON AIRPORT, ALASKA	4. COMMAND ALASKAN AIR COMMAND	5. AREA CONST COST INDEX 3.48

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 89	10	265	19							294
b. End FY 1995	10	267	19							296

7. INVENTORY DATA ($000)

a. Total Acreage: (86)	
b. Inventory Total As Of: (30 SEP 89)	36,730
c. Authorization Not Yet In Inventory:	6,550
d. Authorization Requested In This Program:	2,500
e. Authorization Included In Following Program: (FY 92)	0
f. Planned In Next Three Program Years:	5,000
g. Remaining Deficiency:	0
h. Grand Total:	50,780

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
214-467	VEHICLE REFUELING SHOP	8,040 SF	2,500	MAY 88	NOV 90
		TOTAL:	2,500		

9a. Future Projects: Included in the Following Program (FY 92) NONE

9b. Future Projects: Typical Planned Next Three Years:

721-312	ADD TO DORMITORY	26 PN	5,000

10. Mission or Major Functions: King Salmon is an air defense alert base and provides forward alert for the 43rd Tactical Fighter Squadron (F-15s) under the Alaskan Air Command.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION KING SALMON AIRPORT, ALASKA	4. PROJECT TITLE VEHICLE REFUELING SHOP

5. PROGRAM ELEMENT 1.28.96	6. CATEGORY CODE 214-467	7. PROJECT NUMBER MFJF890401	8. PROJECT COST($000) 2,500

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ADD TO AND ALTER REFUELER MAINT FAC	SF	8,040		1,209
REFUELING VEHICLE SHOP	SF	2,700	150	(405)
VEHICLE OPS HEATED PARKING	SF	5,200	150	(780)
FUELING FACILITY	SF	140	170	(24)
SUPPORTING FACILITIES				1,045
SITE IMPROVEMENTS	LS			(45)
UTILITIES	LS			(945)
FIRE PROTECTION	LS			(55)
SUBTOTAL				2,254
CONTINGENCY (5%)				113
TOTAL CONTRACT COST				2,367
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				154
TOTAL REQUEST				2,521
TOTAL REQUEST (ROUNDED)				2,500

10. Description of Proposed Construction: Construct a refueling vehicle maintenance shop (two stalls) with four additional stalls for refueler warm storage to provide a complete refueling vehicle maintenance facility. Includes fire protection and other necessary support.

11. REQUIREMENT: 8,040 SF ADEQUATE: 0 SUBSTANDARD: 4,025 SF

PROJECT: Refueler maintenance facility. (Current Mission)

REQUIREMENT: A maintenance shop to maintain and park King Salmon's refueling vehicles. Refueling vehicles must be kept in a "ready to operate" status and require heated parking in this cold climate. Seven assigned refuelers (five R-11s and two C-301s) must be parked in a heated facility.

CURRENT SITUATION: The existing facility was originally designed as a vehicle maintenance shop with two heated storage bays. It was later converted into a refueler maintenance shop. The facility is not sized for refueler maintenance and does not have adequate ventilation or fire protection. An adequate ventilation system is required to eliminate vehicle exhaust from the work area. Since the refuelers contain JP-4 fuel, fire protection for this facility is mandatory. Refueling vehicles are currently parked in the combat alert cells to meet refueling response times. The existing vehicle fueling station is located outside the confines of the base. This facility will be demolished upon completion to this project.

IMPACT IF NOT PROVIDED: Personnel will continue to be exposed to fire and carbon monoxide poisoning from vehicle exhaust fumes. A fire would result in the loss of refueler maintenance facilities and refueling vehicles which are critical to the base's flying mission.

ADDITIONAL: There is no criteria/scope for this project in Part II of

DD FORM 1391, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION KING SALMON AIRPORT, ALASKA		
4. PROJECT TITLE VEHICLE REFUELING SHOP		5. PROJECT NUMBER MFJF890401

Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION KING SALMON AIRPORT, ALASKA		
4. PROJECT TITLE VEHICLE REFUELING SHOP		5. PROJECT NUMBER MFJF890401

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 MAY 13
(b) Percent Complete as of Jan 90	35%
(c) Date 35% Designed	89 SEP 15
(d) Date Design Complete	90 NOV 01
(2) Basis:	
(a) Standard or Definitive Design -	YES
(b) Where Design Was Most Recently Used -	ELMENDOR
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	216
(b) All Other Design Costs	
(c) Total	216
(d) Contract	140
(e) In-house	76
(4) Construction Start	90 JAN

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION SHEMYA AIR FORCE BASE, ALASKA	4. COMMAND ALASKAN AIR COMMAND	5. AREA CONST COST INDEX 3.48

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 89	42	536	28				18	4	1	629
b. End FY 1995	42	535	28				18	4	1	628

7. INVENTORY DATA ($000)

a. Total Acreage: (3,521)	
b. Inventory Total As Of: (30 SEP 89)	145,705
c. Authorization Not Yet In Inventory:	91,350
d. Authorization Requested In This Program:	47,400
e. Authorization Included In Following Program: (FY 92)	60,800
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	0
h. Grand Total:	345,255

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	CMPL
214-425	VEHICLE MAINTENANCE FACILITY	26,800 SF	7,700	APR 89	JUN 90
219-943	BASE ENGINEER MAINTENANCE SHOP	27,200 SF	3,700	JUN 88	JUN 90
219-944	ADD TO AND UPGRADE BASE ENGINEER COMPLEX	27,850 SF	6,300	MAY 86	OCT 89
610-243	RENOVATE SUPPORT FACILITY	42,300 SF	15,400	FEB 89	FEB 90
721-312	ALTER DORMITORY	135 PN	7,800	APR 89	SEP 90
831-165	SEWAGE TREATMENT PLANT	LS	2,700	MAR 89	OCT 90
851-147	UPGRADE BASE ROADS	2 MI	1,400	DEC 88	NOV 89
851-147	FLIGHTLINE ACCESS ROAD	LS	2,400	MAR 89	JUL 90
		TOTAL:	47,400		

9a. Future Projects: Included in the Following Program (FY 92)

141-782	AIR FREIGHT TERMINAL	30,000 SF	8,000
154-452	SEA WALL/EROSION PROTECTION	1,500 LF	9,300
442-257	HAZARDOUS MATERIALS STORAGE FACILITY	11,000 SF	4,400
442-758	SUPPLY WAREHOUSE	98,650 SF	16,000
721-312	ALTER DORMITORY	52 PN	8,900
740-615	ADD TO AND ALTER CONSOLIDATED OPEN MESS	15,300 SF	6,800
851-147	UPGRADE BASE ROADS, PHASE II	8 MI	7,400
		TOTAL:	60,800

9b. Future Projects: Typical Planned Next Three Years:

10. Mission or Major Functions: Alaskan Air Command base for air defense surveillance. Strategic Air Command (EC-135) rotational unit.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION SHEMYA AIR FORCE BASE, ALASKA	4. PROJECT TITLE VEHICLE MAINTENANCE FACILITY

5. PROGRAM ELEMENT 1.28.96	6. CATEGORY CODE 214-425	7. PROJECT NUMBER VNMH900413	8. PROJECT COST($000) 7,700

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
VEHICLE MAINTENANCE FACILITY	SF	26,800	240	6,432
SUPPORTING FACILITIES				460
UTILITIES	LS			(310)
SITE IMPROVEMENTS	LS			(150)
SUBTOTAL				6,892
CONTINGENCY (5%)				345
TOTAL CONTRACT COST				7,237
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				470
TOTAL REQUEST				7,707
TOTAL REQUEST (ROUNDED)				7,700

10. Description of Proposed Construction: Reinforced concrete footings, foundation walls, and floor slab, masonry walls, structural steel frame, and roofing system. Includes shop space for maintenance and repair of vehicles, support area, fire protection and other necessary support.

11. REQUIREMENT: 42,200 SF ADEQUATE: 15,400 SF SUBSTANDARD: 17,635 SF

PROJECT: Construct a vehicle maintenance shop. (Current Mission)

REQUIREMENT: Vehicle maintenance facilities are required to consolidate the general purpose and special purpose vehicle maintenance functions. Facilities must provide year-round maintenance and repair capability, fueling for vehicles, and must meet all federal and state safety and environmental requirements.

CURRENT SITUATION: General purpose and special purpose vehicle maintenance are currently separated in two facilities approximately two miles apart. Neither of the buildings are adequate to house maintenance functions. The special purpose vehicle maintenance function shares space with the base engineer pavements and grounds shop in a substandard WWII wooden hangar committed for disposal. With the harsh Aleutian climate, vehicle maintenance activities must be performed indoors. A new facility will consolidate both general and special purpose vehicle maintenance in one building, making operations and control more efficient. Two facilities will be demolished upon completion of this project.

IMPACT IF NOT PROVIDED: Vehicle maintenance functions will continue to work out of separate facilities, two miles apart, impacting effective operations and control in this harsh enviroment. Special purpose maintenance will be forced to continue operation in an inadequate, poorly heated WWII wooden hangar.

ADDITIONAL: There is no criteria/scope for this project in Part II of

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION SHEMYA AIR FORCE BASE, ALASKA		
4. PROJECT TITLE VEHICLE MAINTENANCE FACILITY		5. PROJECT NUMBER VNMH900413

Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION SHEMYA AIR FORCE BASE, ALASKA		
4. PROJECT TITLE VEHICLE MAINTENANCE FACILITY		5. PROJECT NUMBER VNMH900413

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 APR 17
(b) Percent Complete as of Jan 90	45%
(c) Date 35% Designed	89 AUG 16
(d) Date Design Complete	90 JUN 30
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	255
(b) All Other Design Costs	150
(c) Total	405
(d) Contract	80
(e) In-house	325
(4) Construction Start	91 JUN

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION SHEMYA AIR FORCE BASE, ALASKA	4. PROJECT TITLE BASE ENGINEER MAINTENANCE SHOP

5. PROGRAM ELEMENT 1.28.96	6. CATEGORY CODE 219-943	7. PROJECT NUMBER VNMH900404	8. PROJECT COST($000) 3,700

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
BASE ENGINEER MAINTENANCE SHOP	SF	27,200	110	2,992
SUPPORTING FACILITIES				330
UTILITIES	LS			(145)
SITE PREPARATION	LS			(170)
PAVEMENTS	LS			(15)
SUBTOTAL				3,322
CONTINGENCY (5%)				166
TOTAL CONTRACT COST				3,488
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				227
TOTAL REQUEST				3,715
TOTAL REQUEST (ROUNDED)				3,700

10. Description of Proposed Construction: Reinforced concrete structure and foundation, masonry walls, fire protection system and other necessary support. Includes tool crib, equipment shop, supply storage and unheated covered parking.

11. REQUIREMENT: 27,200 SF ADEQUATE: 0 SUBSTANDARD: 24,244 SF

PROJECT: Construct a base engineer maintenance shop. (Current Mission)

REQUIREMENT: A facility is required for maintenance of heavy equipment assigned to the base engineer's pavements and grounds section. Provide covered area for equipment inspection and servicing, operator maintenance, corrosion protection of heavy equipment and grounds supply. Sheltered parking is required to protect pavements and grounds equipment from the corrosive environment and to ensure that the equipment is operational when needed.

CURRENT SITUATION: Pavements and grounds maintenance is located in a WWII wooden hangar which is committed for disposal as part of a FY 88 MILCON project to construct a new hangar. The existing facility lacks insulation, weather stripping, adequate heat and an adequate ventilation system for exhaust fumes. Shemya's climate is cold and windy, and the environment is highly corrosive. Winter winds average 35 knots, often peaking to over 100 knots. Blowing sand strips paint from equipment rapidly. Salt air corrodes the equipment and penetrates the internal working parts, increasing maintenance and the need for replacements. This equipment is critical for runway ice and snow removal. Also, Shemya's gravel roads deteriorate very rapidly due to rain, ice and snow, and roads must be maintained constantly to keep them useable.

IMPACT IF NOT PROVIDED: When the existing facility is demolished, there will be no place to repair and maintain pavements and grounds equipment.

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION SHEMYA AIR FORCE BASE, ALASKA		
4. PROJECT TITLE BASE ENGINEER MAINTENANCE SHOP		5. PROJECT NUMBER VNMH900404

There are no other facilities on Shemya which could house this function. Without covered parking, equipment will continue to deteriorate requiring increased maintenance.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION SHEMYA AIR FORCE BASE, ALASKA		
4. PROJECT TITLE BASE ENGINEER MAINTENANCE SHOP		5. PROJECT NUMBER VNMH900404

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 JUN 14
(b) Percent Complete as of Jan 90	50%
(c) Date 35% Designed	88 AUG 31
(d) Date Design Complete	90 JUN 01
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	200
(b) All Other Design Costs	117
(c) Total	317
(d) Contract	200
(e) In-house	117
(4) Construction Start	91 JUN

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION SHEMYA AIR FORCE BASE, ALASKA	4. PROJECT TITLE ADD TO AND UPGRADE BASE ENGINEER COMPLEX

5. PROGRAM ELEMENT 1.28.96	6. CATEGORY CODE 219-944	7. PROJECT NUMBER VNMH860401	8. PROJECT COST($000) 6,300

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ADD TO AND UPGRADE BASE ENGINEER COMPLEX	SF	27,850		4,880
MAINTENANCE SHOP	SF	5,500	300	(1,650)
BASE COVERED STORAGE FACILITY	SF	18,300	140	(2,562)
RENOVATION	SF	4,050	165	(668)
SUPPORTING FACILITIES				795
UTILITIES	LS			(285)
PAVEMENTS	LS			(200)
SITE IMPROVEMENTS	LS			(225)
DEMOLITION	LS			(85)
SUBTOTAL				5,675
CONTINGENCY (5%)				284
TOTAL CONTRACT COST				5,959
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				387
TOTAL REQUEST				6,346
TOTAL REQUEST (ROUNDED)				6,300

10. Description of Proposed Construction: Reinforced concrete foundation, floors, roof, masonry walls, fire protection system and other necessary support. Includes shop space and covered storage for shops.

11. REQUIREMENT: 57,600 SF ADEQUATE: 0 SUBSTANDARD: 84,957 SF

PROJECT: Add to and alter the base engineer complex. (Current Mission)

REQUIREMENT: Adequate base engineer facility is required to develop, program and execute requirements to operate, maintain and repair facilities, pavements, and utility systems in support of the base mission.

CURRENT SITUATION: The base engineer maintenance shops and storage occupy 22 buildings scattered throughout the base. Over half the buildings are deteriorated wooden structures. Structural systems weakened by the extreme cold, high winds and highly corrosive environment. In addition, inadequate lighting, insulation and mechanical systems have made all of these facilities uneconomical to repair. Sixteen buildings will be demolished upon completion of this project.

IMPACT IF NOT PROVIDED: The base engineering functions will continue to operate in deteriorated, energy inefficient, substandard facilities scattered around the base rather than a composite centrally managed facility.

ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION SHEMYA AIR FORCE BASE, ALASKA		
4. PROJECT TITLE ADD TO AND UPGRADE BASE ENGINEER COMPLEX		5. PROJECT NUMBER VNMH860401

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	86 MAY 22
(b) Percent Complete as of Jan 90	100%
(c) Date 35% Designed	86 SEP 19
(d) Date Design Complete	89 OCT 30
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	575
(b) All Other Design Costs	
(c) Total	575
(d) Contract	320
(e) In-house	255
(4) Construction Start	91 JUN

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION SHEMYA AIR FORCE BASE, ALASKA	4. PROJECT TITLE RENOVATE SUPPORT FACILITY

5. PROGRAM ELEMENT 1.28.96	6. CATEGORY CODE 610-243	7. PROJECT NUMBER VNMH900412B	8. PROJECT COST($000) 15,400

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
RENOVATE SUPPORT FACILITY	SF	42,300	230	9,729
SUPPORTING FACILITIES				3,420
COMMUNICATIONS	LS			(1,415)
ASBESTOS REMOVAL	LS			(1,700)
UTILITIES	LS			(220)
FIRE SUPPRESSION	LS			(85)
SUBTOTAL				13,149
CONTINGENCY (10%)				1,315
TOTAL CONTRACT COST				14,464
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				940
TOTAL REQUEST				15,404
TOTAL REQUEST (ROUNDED)				15,400

10. Description of Proposed Construction: Renovation includes offices, pre-wired workstations, hallways, public areas and where necessary install drop ceilings and new lighting. Includes all necessary electrical, structural and mechanical work.

11. REQUIREMENT: 42,300 SF ADEQUATE: 0 SUBSTANDARD: 42,300 SF

PROJECT: Renovate multipurpose facility. (Current Mission)

REQUIREMENT: Improve working conditions in the command section and administrative offices in the largest (primary) facility on Shemya. Reconfigure offices to provide efficient organization of functional areas. Common use areas require upgrade to improve quality of life at this remote installation. This project includes necessary repairs and modifications to plumbing, heating, and electrical systems.

CURRENT SITUATION: This is the largest facility on base, and houses a conglomeration of functions including all of the base's main offices, commander's office, dining hall, base exchange, medical aid station, as well as housing for both permanently assigned and visiting personnel. Offices are not large enough nor configured for efficient work performance. Personnel are cramped in small offices, two to three persons per office. The interior of the facility needs major repairs. Carpets are thread-bare, ceilings are water damaged, and lighting is inadequate. Upgrading is necessary to meet space requirements and provide a functional layout. There is no civilian community or alternate facilities to provide quarters for visiting personnel.

IMPACT IF NOT PROVIDED: Substandard working and living conditions will continue to contribute to low morale, degrade productivity and negatively impact career satisfaction at this remote base. The quality of mission support provided to critical missions suffers as a result of the

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION SHEMYA AIR FORCE BASE, ALASKA		
4. PROJECT TITLE RENOVATE SUPPORT FACILITY		5. PROJECT NUMBER VNMH900412B

substandard conditions where Air Force personnel are forced to live and work.

ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION SHEMYA AIR FORCE BASE, ALASKA		
4. PROJECT TITLE RENOVATE SUPPORT FACILITY		5. PROJECT NUMBER VNMH900412B

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 FEB 24
(b) Percent Complete as of Jan 90	60%
(c) Date 35% Designed	89 JUN 26
(d) Date Design Complete	90 FEB 28
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	475
(b) All Other Design Costs	275
(c) Total	750
(d) Contract	475
(e) In-house	275
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION SHEMYA AIR FORCE BASE, ALASKA	4. PROJECT TITLE ALTER DORMITORY

5. PROGRAM ELEMENT 1.28.96	6. CATEGORY CODE 721-312	7. PROJECT NUMBER VNMH900411	8. PROJECT COST($000) 7,800

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ALTER DORMITORY (135 PN)	LS			3,375
SUPPORTING FACILITIES				3,310
UTILITIES	LS			(1,570)
ASBESTOS REMOVAL	LS			(1,740)
SUBTOTAL				6,685
CONTINGENCY (10%)				669
TOTAL CONTRACT COST				7,354
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				478
TOTAL REQUEST				7,832
TOTAL REQUEST (ROUNDED)				7,800

10. Description of Proposed Construction: All electrical, mechanical and structural work to alter this facility to current standards.
Grade Mix: 28 01-03; 15 04-010; 20 E1-E4; 50 E5-E6; 22 E7-E9.

11. REQUIREMENT: 976 PN ADEQUATE: 494 PN SUBSTANDARD: 987 PN

PROJECT: Alter dormitory (Current Mission)

REQUIREMENT: A major Air Force objective is to provide unaccompanied personnel with housing that will be conducive to their rest, relaxation and personal well-being. Properly designed and furnished quarters which provide individual privacy are essential to the successful accomplishment of the increasingly complicated missions and functions these people must perform in a remote location such as the island of Shemya.

CURRENT SITUATION: This dormitory does not meet the Air Force standard. It has central latrines, inadequate heat controls, insufficient noise attenuation and lacks the necessary amenities to house officers. The mechanical systems are old and need to be replaced.

IMPACT IF NOT PROVIDED: Substandard working and living conditions will continue to contribute to low morale, degrades productivity and career satisfaction at this remote base.

ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION SHEMYA AIR FORCE BASE, ALASKA		
4. PROJECT TITLE ALTER DORMITORY		5. PROJECT NUMBER VNMH900411

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 APR 27
(b) Percent Complete as of Jan 90	35%
(c) Date 35% Designed	89 AUG 27
(d) Date Design Complete	90 SEP 15
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	1200
(b) All Other Design Costs	
(c) Total	1200
(d) Contract	
(e) In-house	1200
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION SHEMYA AIR FORCE BASE, ALASKA	4. PROJECT TITLE SEWAGE TREATMENT PLANT

5. PROGRAM ELEMENT 1.28.96	6. CATEGORY CODE 831-165	7. PROJECT NUMBER VNMH910405	8. PROJECT COST($000) 2,700

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
SEWAGE TREATMENT PLANT	LS			1,332
SUPPORTING FACILITIES				1,095
UTILITIES	LS			(1,000)
SITE IMPROVEMENT	LS			(95)
SUBTOTAL				2,427
CONTINGENCY (5%)				121
TOTAL CONTRACT COST				2,548
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				166
TOTAL REQUEST				2,714
TOTAL REQUEST (ROUNDED)				2,700

10. Description of Proposed Construction: Convert the existing sewage treatment lagoons to an extended aeration system and increase the capacity of the system. Upgrade the collection system to correct infiltration and sand collection problems.

11. REQUIREMENT: As required.

PROJECT: Add to and upgrade the sewage treatment and disposal. (Current Mission)

REQUIREMENT: Shemya has received an EPA Notice of Violation and is subject to fines. The base must have its own collection and treatment facility since there is no local community system. Alaska Wastewater Disposal Regulations require that domestic wastewater discharged receive secondary treatment.

CURRENT SITUATION: The sewage system collection was installed in the late 1950's. Many of the facilities which were originally connected to the system have since been demolished. The abandoned lines have not been properly sealed. The abandoned foundations are large collection basins funneling water runoff into the sewer system. This, combined with leaking manholes, has resulted in abnormally high infiltration. The treatment process consists of a sewage lagoon which is essentially a settling pond. Because of its age and condition, the lagoon provides very little treatment.

IMPACT IF NOT PROVIDED: Shemya does not currently meet the requirements of the Federal Clean Water Act. Shemya will continue to dump improperly treated sewage into the ocean and pay high maintenance costs for a sewage treatment system which primarily treats clean water. The base has received an EPA Notice of Violation and is subject to fines for inability to meet requirements of federal and state regulations for treatment and

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION SHEMYA AIR FORCE BASE, ALASKA		
4. PROJECT TITLE SEWAGE TREATMENT PLANT		5. PROJECT NUMBER VNMH910405

disposal of sewage.
ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION SHEMYA AIR FORCE BASE, ALASKA		
4. PROJECT TITLE SEWAGE TREATMENT PLANT		5. PROJECT NUMBER VNMH910405

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 MAR 18
(b) Percent Complete as of Jan 90	45%
(c) Date 35% Designed	89 SEP 01
(d) Date Design Complete	90 OCT 01
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	85
(b) All Other Design Costs	50
(c) Total	135
(d) Contract	85
(e) In-house	50
(4) Construction Start	91 MAY

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION SHEMYA AIR FORCE BASE, ALASKA	4. PROJECT TITLE UPGRADE BASE ROADS

5. PROGRAM ELEMENT 1.28.96	6. CATEGORY CODE 851-147	7. PROJECT NUMBER VNMH900415	8. PROJECT COST($000) 1,400

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
UPGRADE BASE ROADS	MI	2	500,000	1,000
SUPPORTING FACILITIES				265
SITE PREPARATION	LS			(240)
CULVERTS	LS			(25)
SUBTOTAL				1,265
CONTINGENCY (5%)				63
TOTAL CONTRACT COST				1,328
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				86
TOTAL REQUEST				1,414
TOTAL REQUEST (ROUNDED)				1,400

10. Description of Proposed Construction: Upgrade roads with asphalt concrete pavement and composite base course.

11. **REQUIREMENT**: 10 MI ADEQUATE: 0 SUBSTANDARD: 10 MI

PROJECT: Pave 2 miles of existing gravel roads. (Current Mission)

REQUIREMENT: Pave the most frequently used road on base.

CURRENT SITUATION: Most roads on Shemya are gravel and require continual maintenance due to severe weather conditions. Rain and snow occur an average of 219 days a year. The average annual snowfall is 72.4 inches. As a result, roads sustain heavy damage with constant use and moisture. Roads continually develop potholes and the rough gravel surface causes excessive wear and tear on vehicles, reducing their useful life. An ambulance truck with a normal life expectancy of 13 years lasts 8 years. The life expectancy of pickups, carryalls and utility trucks is reduced two to three years. Unit maintenance costs for gravel roads are more than 20 times the amount spent to maintain a paved road. Blind intersections and steep grades create specific hazards during winter months. There are approximately two accidents per month during the summer and six accidents per month during the winter. New roads constructed by this project will eliminate these safety hazards. A paved road network will provide unobstructed and swift access between the base fire station and various missions on the island.

IMPACT IF NOT PROVIDED: Roads will continually require excessive maintenance. By paving the most frequently used gravel roads, wear and tear on vehicles will be greatly reduced.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

26-503 O-90--6

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION SHEMYA AIR FORCE BASE, ALASKA		
4. PROJECT TITLE UPGRADE BASE ROADS		5. PROJECT NUMBER VNMH900415

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 DEC 15
(b) Percent Complete as of Jan 90	60%
(c) Date 35% Designed	89 MAR 21
(d) Date Design Complete	89 NOV 29
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	50
(b) All Other Design Costs	25
(c) Total	75
(d) Contract	
(e) In-house	75
(4) Construction Start	91 APR

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION SHEMYA AIR FORCE BASE, ALASKA	4. PROJECT TITLE FLIGHTLINE ACCESS ROAD

5. PROGRAM ELEMENT 1.28.96	6. CATEGORY CODE 851-147	7. PROJECT NUMBER VNMH820412	8. PROJECT COST($000) 2,400

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
FLIGHTLINE ACCESS ROAD	LS			1,302
SUPPORTING FACILITIES				865
SITE IMPROVEMENTS	LS			(865)
SUBTOTAL				2,167
CONTINGENCY (5%)				108
TOTAL CONTRACT COST				2,275
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				148
TOTAL REQUEST				2,423
TOTAL REQUEST (ROUNDED)				2,400

10. Description of Proposed Construction: A 22-foot wide asphalt roadway with four-foot wide stabilized shoulders.

11. REQUIREMENT: As required.

PROJECT: Pave 3/4-mile of existing gravel roads and construct one-mile of new road for flightline access. (Current Mission)

REQUIREMENT: Surfaced roads for mission essential vehicles requiring access along the flightline.

CURRENT SITUATION: Most roads on Shemya are gravel and require continual maintenance due to severe weather conditions. Precipitation occurs an average of 219 days a year, and the average annual snowfall is 72.4 inches. As a result, gravel roads have deteriorated from constant use and moisture. These roads provide the only means of access to base operations and the new hangars. Approximately 90 percent of all base traffic flows in this area of the base. The rough gravel roads cause excessive wear and tear on vehicles, greatly reducing their useful life.

IMPACT IF NOT PROVIDED: Gravel roads will require continual, excessive maintenance. By paving the most frequently used gravel roads and constructing an access road for the hangar area, wear and tear on the vehicles will be reduced. Response times for fire protection and mission essential support vehicles will continue to be excessive because of poor roads and hindered access.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION SHEMYA AIR FORCE BASE, ALASKA		
4. PROJECT TITLE FLIGHTLINE ACCESS ROAD		5. PROJECT NUMBER VNMH820412

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 MAR 16
(b) Percent Complete as of Jan 90	50%
(c) Date 35% Designed	89 JUL 31
(d) Date Design Complete	90 JUL 01
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	122
(b) All Other Design Costs	
(c) Total	122
(d) Contract	
(e) In-house	122
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE

3. INSTALLATION AND LOCATION VARIOUS LOCATIONS, ALASKA	4. COMMAND ALASKAN AIR COMMAND	5. AREA CONST COST INDEX 2.46

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 89										
b. End FY 1994										

7. INVENTORY DATA ($000)

a. Total Acreage: (0)	
b. Inventory Total As Of: (30 SEP 89)	0
c. Authorization Not Yet In Inventory:	0
d. Authorization Requested In This Program:	11,000
e. Authorization Included In Following Program: (FY 92)	0
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	0
h. Grand Total:	11,000

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
610-811	OTH-B NON-TECHNICAL SUPPORT FACILITIES	9,400 SF	11,000	TURN KEY	
		TOTAL:	11,000		

9a. Future Projects: Included in the Following Program (FY 92) NONE

9b. Future Projects: Typical Planned Next Three Years:

10. Mission or Major Functions: All support for the Over-the-Horizon Backscatter Radar System transmit and receiver sites in Alaska.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION ALASKA VARIOUS LOCATIONS	4. PROJECT TITLE OTH-B NON-TECHNICAL SUPPORT FACILITIES

5. PROGRAM ELEMENT 1.24.17 TIARA	6. CATEGORY CODE 610-811	7. PROJECT NUMBER ESDS891001	8. PROJECT COST($000) 11,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
OTH-B NON-TECHNICAL SUPPORT FACILITIES	SF	9,400	400	3,760
SUPPORTING FACILITIES				6,070
UTILITIES	LS			(3,800)
PAVEMENTS	LS			(535)
SITE IMPROVEMENTS	LS			(1,180)
SPECIAL FOUNDATIONS	LS			(555)
SUBTOTAL				9,830
CONTINGENCY (5%)				492
TOTAL CONTRACT COST				10,322
SUPERVISION, INSPECTION AND OVERHEAD (6%)				619
TOTAL REQUEST				10,941
TOTAL REQUEST (ROUNDED)				11,000

10. Description of Proposed Construction: Construct a pre-engineered, insulated metal building with concrete floor; transient/emergency sleeping quarters; security force area, roadway and parking, security lighting, utilidor, and other necessary support.

11. REQUIREMENT: 9,400 SF ADEQUATE: 0 SUBSTANDARD: 0

PROJECT: Construct various OTH-B radar support facilities at the transmitter and receiver sites. (New Mission)

REQUIREMENT: Facilities to support the Over-the-Horizon Backscatter (OTH-B) Radar system at remote locations in Alaska. The radar system consists of three major components: a transmitter system, a receiver system and an operations system. The system requires the transmitter site to be geographically separated from the receiver site (at least 150 miles away). The transmitter site requires transient and emergency living quarters, security offices, first aid room and response vehicle parking area.

CURRENT SITUATION: No existing warning system for the United States provides sufficient coverage and range for early detection of bomber and air-to-surface missile attack.

IMPACT IF NOT PROVIDED: Without OTH-B radar, bombers or missiles attacking North America will not be identified, jeopardizing our ability to protect North America.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION ALASKA VARIOUS LOCATIONS		
4. PROJECT TITLE OTH-B NON-TECHNICAL SUPPORT FACILITIES		5. PROJECT NUMBER ESDS891001

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Project to be accomplished by one step turn key procedures

(2) Basis:

(a) Standard or Definitive Design -	YES
(b) Where Design Was Most Recently Used -	MT HOME
(3) Design Allowance	300
(4) Construction Start	91 FEB

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION LUKE AIR FORCE BASE, ARIZONA	4. COMMAND TACTICAL AIR COMMAND	5. AREA CONST COST INDEX 0.98

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 89	657	4958	1268	94	4				15	6,996
b. End FY 1995	655	4926	1287	94	4				15	6,981

7. INVENTORY DATA ($000)

a. Total Acreage: (2,679,774)	
b. Inventory Total As Of: (30 SEP 89)	184,902
c. Authorization Not Yet In Inventory:	53,580
d. Authorization Requested In This Program:	1,800
e. Authorization Included In Following Program: (FY 92)	3,420
f. Planned In Next Three Program Years:	7,710
g. Remaining Deficiency:	0
h. Grand Total:	251,412

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
911-146	LAND ACQUISITION	234 AC	1,800		
		TOTAL:	1,800		

9a. Future Projects: Included in the Following Program (FY 92)

831-165	ALTER WASTEWATER TREATMENT FAC	LS	2,900
872-247	BASE SECURITY FENCING	16,300 LF	520
		TOTAL:	3,420

9b. Future Projects: Typical Planned Next Three Years:

211-183	SOUND SUPPRESSOR SUPPORT FACILITY	1 EA	710
411-135	JET FUEL STORAGE FACILITY	BL	500
722-351	DINING FACILITY	20,400 SF	4,250
880-211	HANGAR FIRE PROTECTION	LS	2,250

10. Mission or Major Functions: This base hosts an air division headquarters; two tactical training wings, with F-15 and F-16 aircraft; and an Air Force Reserve Tactical Fighter Group, with f-16 aircraft.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION LUKE AIR FORCE BASE, ARIZONA	4. PROJECT TITLE LAND ACQUISITION

5. PROGRAM ELEMENT 2.75.96	6. CATEGORY CODE 911-146	7. PROJECT NUMBER NUEX903010	8. PROJECT COST($000) 1,800

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
LAND ACQUISITION	AC	234	7,350	1,720
SUBTOTAL				1,720
TOTAL CONTRACT COST				1,720
SUPERVISION, INSPECTION AND OVERHEAD (6%)				103
TOTAL REQUEST				1,823
TOTAL REQUEST (ROUNDED)				1,800

10. Description of Proposed Construction: Purchase in fee 234 acres of private land adjacent to the south boundary of Luke AFB for land spraying of sewage effluent. Provide site drainage work to adjacent land.

11. REQUIREMENT: 234 AC ADEQUATE: 0 SUBSTANDARD: 0

PROJECT: Purchase in fee 234 acres of private land. (Current Mission)

REQUIREMENT: Provide an adequate area to dispose of sewage effluent by land spraying. Construct a new sewage treatment facility in a future MILCON. A golf course will be constructed with non-appropriated funds in FY 91.

CURRENT SITUATION: Effluent is presently discharged into the Aqua Fria river bed creating a potential source of ground water contamination. The land purchased by this project will provide an area for a land spray irrigation operation which will satisfy future base needs and state effluent discharge standards. In addition, land spraying will help minimize the drop in the ground water table which averages ten feet per year. A new sewage treatment plant will be requested in the future to replace the existing 30 year-old facility, which must be upgraded to continue proper operation and meet effluent discharge laws.

IMPACT IF NOT PROVIDED: Effluent will continue to be discharged into the Aqua Fria river bed. Future development and higher effluent quality standards will make existing treatment operations extremely uneconomical. Disposal of effluent by land spraying is the best long term solution.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION WILLIAMS AIR FORCE BASE, ARIZONA	4. COMMAND AIR TRAINING COMMAND	5. AREA CONST COST INDEX 0.98

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 89	546	1915	667	412						3,540
b. End FY 1995	527	1839	657	424						3,447

7. INVENTORY DATA ($000)

a. Total Acreage: (4,758)	
b. Inventory Total As Of: (30 SEP 89)	103,401
c. Authorization Not Yet In Inventory:	10,750
d. Authorization Requested In This Program:	9,150
e. Authorization Included In Following Program: (FY 92)	5,600
f. Planned In Next Three Program Years:	8,000
g. Remaining Deficiency:	0
h. Grand Total:	136,901

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
111-111	AUXILIARY FIELD/LAND ACQUISITION	LS	5,500	MAR 89	AUG 90
171-212	ADD TO AND ALTER FLIGHT SIMULATOR	LS	400	MAY 89	MAR 90
211-000	SPECIALIZED UPT MAINTENANCE AND OPERATIONS SUPPORT	LS	900	MAR 89	AUG 90
219-944	BASE ENGINEER COMPLEX	29,700 SF	2,350	MAR 89	JUL 90
		TOTAL:	9,150		

9a. Future Projects: Included in the Following Program (FY 92)

211-111	SPECIALIZED UPT MAINTENANCE SUPPORT	40,000 SF	5,600
		TOTAL:	5,600

9b. Future Projects: Typical Planned Next Three Years:

136-664	RUNWAY LIGHTING	LS	2,200
211-111	AIRCRAFT MAINTENNCE HANGAR	48,000 SF	5,800

10. Mission or Major Functions: A flying wing conducting classroom and flying training for proficiency of undergraduate pilots in T-37 and T-38 aircraft; a TAC fighter training squadron conducting security assistance flying training for foreign students in F-5 aircraft; AFSC Human Resources Lab doing research on flight simulators.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION WILLIAMS AIR FORCE BASE, ARIZONA	4. PROJECT TITLE AUXILIARY FIELD/LAND ACQUISITION

5. PROGRAM ELEMENT 8.57.96	6. CATEGORY CODE 111-111	7. PROJECT NUMBER YZJU900565	8. PROJECT COST($000) 5,500

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
AUXILIARY FIELD/LAND ACQUISITION	LS			4,047
RUNWAY	SY	133,500	16	(2,136)
TAXIWAY/APRON	SY	10,100	52	(525)
FIRE STATION	SF	3,000	100	(300)
LAND ACQUISITION	AC	600	1,810	(1,086)
SUPPORTING FACILITIES				875
UTILITIES	LS			(250)
PAVEMENTS	LS			(300)
SITE IMPROVEMENTS	LS			(325)
SUBTOTAL				4,922
CONTINGENCY (5%)				246
TOTAL CONTRACT COST				5,168
SUPERVISION, INSPECTION AND OVERHEAD (6%)				310
TOTAL REQUEST				5,478
TOTAL REQUEST (ROUNDED)				5,500

10. Description of Proposed Construction: A runway with overruns, taxiways and apron. Includes an access road, a fire station, two runway supervisory units, perimeter fencing, and other necessary support. Also includes acquisition of 600 acres of land.

11. REQUIREMENT: As required.

PROJECT: Construct an auxiliary airfield and acquire 600 acres of land. (Current Mission)

REQUIREMENT: An auxiliary airfield is required to support the T-37 flying training mission. The number of training events requires four runways to support both primary and basic phases of training (three at Williams AFB and one at an auxiliary airfield). One installation cannot safely provide the required support because of the maximum limit of two overhead flight patterns. The auxiliary field provides the required support for the primary phase of training. This field accommodates an average daily traffic count of 415 operations.

CURRENT SITUATION: The proposed action is necessary due to continuing pressure for more joint use (civilian aircraft and parachute use) at the present auxiliary field and future plans for commercial use of Coolidge Municipal Airport. The present lease agreement allows substantial use of the airfield for parachute jumps, an activity that has proven incompatible and unsafe with student training operations especially with the recent increase in jumping activity. The fact that T-37 pilots are just beginning their training and are less adaptable to mission changes and training disruptions only compounds the problem at the existing airfield. This project will provide the land and auxiliary field to permit termination of the lease of the current airfield.

IMPACT IF NOT PROVIDED: The T-37 pilot training mission will continue

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION WILLIAMS AIR FORCE BASE, ARIZONA		
4. PROJECT TITLE AUXILIARY FIELD/LAND ACQUISITION		5. PROJECT NUMBER YZJU900565

using the leased auxiliary field at Coolidge Municipal Airport. Unsafe flying conditions will continue due to shared airspace with parachute jumpers.

ADDITIONAL: An economic analysis has been prepared comparing the alternatives of new construction versus status quo operation. Based on the net present values and benefits of the respective alternatives, land acquisition and new construction was found to be the most cost efficient over the life of the project. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION

WILLIAMS AIR FORCE BASE, ARIZONA

4. PROJECT TITLE AUXILIARY FIELD/LAND ACQUISITION	5. PROJECT NUMBER YZJU900565

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 MAR 01
(b) Percent Complete as of Jan 90	60%
(c) Date 35% Designed	89 AUG 25
(d) Date Design Complete	90 AUG 01
(2) Basis:	
(a) Standard or Definitive Design -	YES
(b) Where Design Was Most Recently Used -	COLUMBUS
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	245
(b) All Other Design Costs	83
(c) Total	328
(d) Contract	246
(e) In-house	82
(4) Construction Start	91 JAN

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION WILLIAMS AIR FORCE BASE, ARIZONA	4. PROJECT TITLE BASE ENGINEER COMPLEX

5. PROGRAM ELEMENT 8.57.96	6. CATEGORY CODE 219-944	7. PROJECT NUMBER YZJU870527	8. PROJECT COST($000) 2,350

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
BASE ENGINEER COMPLEX	SF	29,700	52	1,544
SUPPORTING FACILITIES				575
UTILITIES	LS			(150)
PAVEMENTS	LS			(200)
SITE IMPROVEMENTS	LS			(210)
COMMUNICATIONS SUPPORT	LS			(15)
SUBTOTAL				2,119
CONTINGENCY (5%)				106
TOTAL CONTRACT COST				2,225
SUPERVISION, INSPECTION AND OVERHEAD (6%)				134
TOTAL REQUEST				2,359
TOTAL REQUEST (ROUNDED)				2,350

10. Description of Proposed Construction: Masonry and steel structures with concrete foundation and floor slab, steel roof framing. Includes shops, covered storage and storage shed, and other necessary support.

11. REQUIREMENT: 38,900 SF ADEQUATE: 9,200 SF SUBSTANDARD: 29,800 SF

PROJECT: Construct a base engineer complex. (Current Mission)

REQUIREMENT: Adequate space to effectively, efficiently and safely accomplish the various shop, vehicle, road, pavements, and storage functions necessary in the maintenance and upkeep of the base facilities and related mission activities. The facilities must be located in an area for easy access by individual and organizational customers.

CURRENT SITUATION: Base engineer functions are presently located in 9 separate structures, four of which have outlived their useful life and have deteriorated beyond economical repair. Critical problems include inadequate lighting, insulation and mechanical systems, and much of the space is inefficiently and poorly configured. The separation of functions impedes operational efficiency and effective use of resources. Work flow and communications are severely impaired resulting in duplication of effortwhich ultimately reduces the overall productivity of the organization. Four WWII buildings will be demolished upon completion of this project.

IMPACT IF NOT PROVIDED: Base engineer functions will be forced to continue in dispersed substandard facilities resulting in reduced efficiency and productivity.

ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

DD FORM 1391, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION WILLIAMS AIR FORCE BASE, ARIZONA		
4. PROJECT TITLE BASE ENGINEER COMPLEX		5. PROJECT NUMBER YZJU870527

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 MAR 01
(b) Percent Complete as of Jan 90	35%
(c) Date 35% Designed	89 SEP 15
(d) Date Design Complete	90 JUL 15
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	145
(b) All Other Design Costs	140
(c) Total	285
(d) Contract	197
(e) In-house	88
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION BEALE AIR FORCE BASE, CALIFORNIA	4. COMMAND STRATEGIC AIR COMMAND	5. AREA CONST COST INDEX 1.19

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 89	539	3484	458							4,481
b. End FY 1995	533	3474	465							4,472

7. INVENTORY DATA ($000)

a. Total Acreage: (22,944)	
b. Inventory Total As Of: (30 SEP 89)	171,156
c. Authorization Not Yet In Inventory:	1,600
d. Authorization Requested In This Program:	6,300
e. Authorization Included In Following Program: (FY 92)	14,000
f. Planned In Next Three Program Years:	15,450
g. Remaining Deficiency:	0
h. Grand Total:	208,506

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	CMPL
721-312	DORMITORY	250 PN	6,300	JUL 88	JUL 89
		TOTAL:	6,300		

9a. Future Projects: Included in the Following Program (FY 92)

130-835	SECURITY POLICE OPERATIONS	19,300 SF	4,450
211-159	COVERED AIRCRAFT WASHRACK	24,200 SF	2,150
721-312	DORMITORY	250 PN	7,400
		TOTAL:	14,000

9b. Future Projects: Typical Planned Next Three Years:

121-111	PETROLEUM OPERATIONS FACILITY	3,970 SF	1,200
141-783	AIR FREIGHT/PASSENGER TERMINAL	27,400 SF	4,050
722-351	CONSOLIDATED DINING FACILITY	LS	5,500
740-675	LIBRARY	LS	2,600
880-232	FIRE PROTECTION SYSTEMS	LS	2,100

10. Mission or Major Functions: Active mission support activities include an air division headquarters responsible for management, command, control and direction of assigned Strategic Air Command units; a strategic reconnaissance operational wing including a SR-71 squadron and a U-2 and TR-1 squadron performing worldwide strategic reconnaissance; and two KC-135 squadrons supporting reconnaissance aircraft tanker requirements.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION BEALE AIR FORCE BASE, CALIFORNIA	4. PROJECT TITLE DORMITORY

5. PROGRAM ELEMENT 1.18.96	6. CATEGORY CODE 721-312	7. PROJECT NUMBER BAEY891009	8. PROJECT COST($000) 6,300

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
DORMITORY (250 PN)	SF	47,500	98	4,655
SUPPORTING FACILITIES				985
UTILITIES	LS			(395)
SITE IMPROVEMENTS	LS			(235)
COMMUNICATIONS SUPPORT	LS			(205)
FIRE PROTECTION	LS			(30)
PAVEMENTS	LS			(120)
SUBTOTAL				5,640
CONTINGENCY (5%)				282
TOTAL CONTRACT COST				5,922
SUPERVISION, INSPECTION AND OVERHEAD (6%)				355
TOTAL REQUEST				6,277
TOTAL REQUEST (ROUNDED)				6,300

10. Description of Proposed Construction: Concrete foundation and slab, composite metal deck and concrete filled floors, and masonry block walls. Includes semi-private baths, lounges, centralized storage, demolition, utilities and other necessary support.
Air Conditioning: 150 Tons. Grade Mix: 250 E1-E4.

11. REQUIREMENT: 1,593 PN ADEQUATE: 1,196 PN SUBSTANDARD: 912 PN

PROJECT: Construct a dormitory. (Current Mission)

REQUIREMENT: A major Air Force objective provides unaccompanied enlisted personnel with housing conducive to their proper rest, relaxation and personal well-being. Properly designed and furnished quarters providing some degree of individual privacy are essential to the successful accomplishment of the increasingly complicated and important jobs these people must perform.

CURRENT SITUATION: Unaccompanied enlisted personnel are currently housed in ten 30 year old wood dormitories which do not meet Air Force standards. Without replacement construction, unaccompanied personnel in grades E1-E4 will either be housed in substandard facilities or housed off base. Due to the distance (30-45 minutes driving time) from adequate local community housing and limited transportation, off-base housing is not attractive nor affordable for many of our junior enlisted personnel. They must be provided adequate on-base housing. Two substandard dormitories will be demolished as a result of this project.

IMPACT IF NOT PROVIDED: The condition of the existing facilities will not allow these wood frame dormitories to be upgraded. The dormitories will continue to deteriorate because major improvements are not feasible. Long range programs to improve personnel living conditions will be stifled, and adequate as well as comfortable quarters for personnel who reside on base

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION BEALE AIR FORCE BASE, CALIFORNIA		
4. PROJECT TITLE DORMITORY		5. PROJECT NUMBER BAEY891009

will not be available.

ADDITIONAL: An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost efficient over the life of the project. This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION BEALE AIR FORCE BASE, CALIFORNIA		
4. PROJECT TITLE DORMITORY		5. PROJECT NUMBER BAEY891009

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 JUL 29
(b) Percent Complete as of Jan 90	100%
(c) Date 35% Designed	88 NOV 22
(d) Date Design Complete	89 JUL 01
(2) Basis:	
(a) Standard or Definitive Design -	YES
(b) Where Design Was Most Recently Used -	BEALE
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	372
(b) All Other Design Costs	
(c) Total	372
(d) Contract	260
(e) In-house	112
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION CASTLE AIR FORCE BASE, CALIFORNIA	4. COMMAND STRATEGIC AIR COMMAND	5. AREA CONST COST INDEX 1.08

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 89	816	4235	392							5,443
b. End FY 1995	784	4139	406							5,329

7. INVENTORY DATA ($000)

a. Total Acreage: (3,257)	
b. Inventory Total As Of: (30 SEP 89)	139,725
c. Authorization Not Yet In Inventory:	13,280
d. Authorization Requested In This Program:	3,000
e. Authorization Included In Following Program: (FY 92)	3,000
f. Planned In Next Three Program Years:	38,690
g. Remaining Deficiency:	0
h. Grand Total:	197,695

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	CMPL
130-835	SECURITY POLICE OPERATIONS FACILITY	19,700 SF	3,000	SEP 88	JUN 90
		TOTAL:	3,000		

9a. Future Projects: Included in the Following Program (FY 92)

171-211	FLIGHT INSTRUCTOR TRAINING FACILITY	25,200 SF	3,000
		TOTAL:	3,000

9b. Future Projects: Typical Planned Next Three Years:

141-459	ALTER ALERT FACILITY	9,500 SF	940
141-753	SQUADRON OPERATIONS FACILITY	76,000 SF	12,800
610-243	GROUP HEADQUARTERS FACILITY	100,000 SF	5,500
812-926	AIRCRAFT SECURITY LIGHTING	LS	1,750
812-926	ADD TO AND ALTER WEAPONS STORAGE AREA LIGHTING	LS	820

10. Mission or Major Functions: Active mission support activities include a heavy bombardment operational wing including a B-52 squadron which performs combat crew training and two KC-135 squadron which performs combat crew training and one which maintain an alert force.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION CASTLE AIR FORCE BASE, CALIFORNIA	4. PROJECT TITLE SECURITY POLICE OPERATIONS FACILITY

5. PROGRAM ELEMENT 1.18.96	6. CATEGORY CODE 130-835	7. PROJECT NUMBER DESR880800	8. PROJECT COST($000) 3,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
SECURITY POLICE OPERATIONS FACILITY	SF	19,700	110	2,167
SUPPORTING FACILITIES				540
UTILITIES	LS			(30)
SITE IMPROVEMENTS	LS			(200)
PAVEMENTS	LS			(100)
FIRE PROTECTION	LS			(50)
SEISMIC CONSTRUCTION	LS			(30)
COMMUNICATIONS SUPPORT	LS			(110)
PASSIVE SOLAR	LS			(20)
SUBTOTAL				2,707
CONTINGENCY (5%)				135
TOTAL CONTRACT COST				2,842
SUPERVISION, INSPECTION AND OVERHEAD (6%)				171
TOTAL REQUEST				3,013
TOTAL REQUEST (ROUNDED)				3,000

10. Description of Proposed Construction: Reinforced concrete foundation, floor slab, masonry walls and sloping metal roof. Includes prewired workstations, classroom, law enforcement, investigations, armory, confinement, central security control, storage and other necessary support. Air Conditioning: 50 Tons.

11. REQUIREMENT: 19,700 SF ADEQUATE: 0 SUBSTANDARD: 22,482 SF

PROJECT: Construct a security police operations facility. (Current Mission)

REQUIREMENT: An adequate facility to accommodate all security police operations, law enforcement and resource protection functions and base information security. The facility must support the entire base in all areas of law enforcement, investigative functions and security operations. This includes management space, a control center containing a communications console to control law enforcement and resources protection functions, confinement space, an investigative section, training section and a secure room for storage.

CURRENT SITUATION: Security Police functions are currently located in five dispersed buildings; two buildings are WWII wood frame structures. Also used are a portion of another wooden building, a masonry structure built to house data automation functions and half of another building constructed in 1953 as a dormitory. None of these facilities are properly or effectively configured to meet modern management and control needs for security police functions. The WWII wooden buildings are plagued with weak and sagging floors and deteriorated walls and roof systems. Energy consumption is excessive due to inadequate insulation. Motion detection equipment required for security of sensitive areas of the facilities cannot be used because of the age and instability which cause false

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION CASTLE AIR FORCE BASE, CALIFORNIA		
4. PROJECT TITLE SECURITY POLICE OPERATIONS FACILITY		5. PROJECT NUMBER DESR880800

alarms. Electrical systems are overloaded and limit the use of air conditioning. None of the facilities are large enough to accommodate daily guardmount formations. This activity is currently accommodated outside and is subject to frequent interruption by flightline noise. Operations and control functions are nearly one mile from related activities which severely disrupts and complicates the span of control and work flow. Two WWII substandard facilities will be disposed of upon completion of this project. The space in the other facilities will be used to satisfy other base deficiencies.
IMPACT IF NOT PROVIDED: The mission will continue to be carried on with less than optimum effectiveness and efficiency. High maintenance and energy costs will continue and manhours will be wasted in travel between the dispersed functions. The morale and efficiency of the organization will be adversely affected.
ADDITIONAL: An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost efficient over the life of the project. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION CASTLE AIR FORCE BASE, CALIFORNIA		
4. PROJECT TITLE SECURITY POLICE OPERATIONS FACILITY		5. PROJECT NUMBER DESR880800

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 SEP 27
(b) Percent Complete as of Jan 90	65%
(c) Date 35% Designed	89 MAY 26
(d) Date Design Complete	90 JUN 30
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	168
(b) All Other Design Costs	50
(c) Total	218
(d) Contract	168
(e) In-house	50
(4) Construction Start	91 MAR

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION EDWARDS AIR FORCE BASE, CALIFORNIA	4. COMMAND AIR FORCE SYSTEMS COMMAND	5. AREA CONST COST INDEX 1.23

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 89	811	3932	2500				3	12	35	7,293
b. End FY 1995	612	3416	2456				3	12	35	6,534

7. INVENTORY DATA ($000)

a. Total Acreage: (303,875)	
b. Inventory Total As Of: (30 SEP 89)	450,533
c. Authorization Not Yet In Inventory:	16,450
d. Authorization Requested In This Program:	17,100
e. Authorization Included In Following Program: (FY 92)	73,400
f. Planned In Next Three Program Years:	82,850
g. Remaining Deficiency:	0
h. Grand Total:	640,333

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
141-743	RENOVATE FLIGHT TEST AUDIO-VISUAL SUPPORT FACILITY	42,500 SF	5,500	MAR 86	AUG 90
211-157	JET ENGINE MAINTENANCE FACILITY	78,000 SF	11,600	DEC 88	JUN 90
		TOTAL:	17,100		

9a. Future Projects: Included in the Following Program (FY 92)

311-174	ADVANCE TACTICAL FIGHTER, FULL SCALE DEVELOPMENT FACILITIES	102,000 SF	23,900
312-477	MOTOR ASSEMBLY BUILDING	9,600 SF	1,200
317-932	ELECTRONIC COMBAT INTEGRATED TEST FACILITY	129,700 SF	41,000
721-312	ALTER DORMITORIES	67,000 SF	7,300
		TOTAL:	73,400

9b. Future Projects: Typical Planned Next Three Years:

311-174	TEST & EVALUATION SUPPORT FAC	10,000 SF	1,900
312-472	SPACECRAFT INTEGRATATION TECHNOLOGY LABORATORY	LS	21,500
740-884	CHILD CARE/PRESCHOOL FACILITY	21,200 SF	3,200
813-231	ADD TO AND ALTER ELECTRIC SUBSTATION	LS	10,300
813-231	ADD TO AND ALTER ELECTRIC DISTRIBUTION SYSTEM, PHASE II	LS	4,900

10. Mission or Major Functions: The Air Force Flight Test Center is responsible for flight test activities for all Air Force flying weapons systems. Air Force Test Pilot School provides Air Force resources for programs requiring test pilots. Air Force Rocket Propulsion Laboratory conducts Air Force research and development on rocket propulsion systems. Site of the NASA Dryden Flight Research Facility.

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION EDWARDS AIR FORCE BASE, CALIFORNIA	4. COMMAND AIR FORCE SYSTEMS COMMAND	5. AREA CONST COST INDEX 1.23

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of										
b. End FY 19										

7. INVENTORY DATA ($000)

a. Total Acreage:
b. Inventory Total As Of:
c. Authorization Not Yet In Inventory:
d. Authorization Requested In This Program:
e. Authorization Included In Following Program:
f. Planned In Next Three Program Years:
g. Remaining Deficiency:
h. Grand Total:

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION EDWARDS AIR FORCE BASE, CALIFORNIA	4. PROJECT TITLE RENOVATE FLIGHT TEST AUDIOVISUAL SUPPORT FACILITY

5. PROGRAM ELEMENT 7.28.06	6. CATEGORY CODE 141-743	7. PROJECT NUMBER FSPM880011	8. PROJECT COST($000) 5,500

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
RENOVATE FLIGHT TEST AUDIOVISUAL SUPPORT FACILITY	SF	42,500	97	4,123
SUPPORTING FACILITIES				625
COMMUNICATIONS	LS			(210)
SITE IMPROVEMENTS	LS			(210)
UTILITIES	LS			(205)
SUBTOTAL				4,748
CONTINGENCY (10%)				475
TOTAL CONTRACT COST				5,223
SUPERVISION, INSPECTION AND OVERHEAD (6%)				313
TOTAL REQUEST				5,536
TOTAL REQUEST (ROUNDED)				5,500

10. Description of Proposed Construction: Remove/construct new walls, roofing system; heating, ventilation, specialized plumbing and other necessary support. Air Conditioning: 240 Tons.

11. REQUIREMENT: 42,500 SF ADEQUATE: 0 SUBSTANDARD: 39,900 SF

PROJECT: Add to and renovate Flight Test Audiovisual Support Facility. (Current Mission)

REQUIREMENT: Adequate facilities to integrate the motion picture laboratory and the still photo laboratory and to provide space for a video studio, computer graphics, and storage of specialized surveying equipment. Electro-optical engineering sequential data collection and a variety of audiovisual services are required to support test and evaluation programs. Such services record data on guidance and control, propulsion, flight worthiness, armament, counter-measures, avionics, structures, aerodynamics and space mechanics for the F-16, B-1, F-15, Space Transportation System, and others. The Audiovisual Center must be physically located on the base for timely response to customers.

CURRENT SITUATION: The existing facility, constructed in 1957, is poorly configured and inefficient due to increased workload and technological advances. It was designed with numerous small rooms for discrete laboratory functions. The high ceilings and old style fluorescent lighting are energy inefficient. Heating and air conditioning systems are deteriorated and close to failure. The ventilation system does not adequately dissipate noxious vapors; pipelines are rusted and clogged; the roof and ceilings require extensive repair; the debris that falls from the ceilings makes it impossible to maintain the cleanliness essential for good quality control; and there is no efficient way of handling hazardous effluents. Frequently, optically recorded data is the only source of

DD FORM 1391, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION EDWARDS AIR FORCE BASE, CALIFORNIA		
4. PROJECT TITLE RENOVATE FLIGHT TEST AUDIOVISUAL SUPPORT FACILITY		5. PROJECT NUMBER FSPM880011

information on unique tests that cannot be duplicated. Processing for classified programs causes great difficulty because of the inability to provide adequate protection with the current floor plan.

IMPACT IF NOT PROVIDED: Critical data will be lost and vital test missions will be delayed. Required video and computer graphics support will be unavailable. Additional manpower will be needed to support programmed workload due to the inefficient functional arrangement. Further, placing specialized equipment outside in the desert climatic conditions is impractical and will cause problems such as scratched optical lenses and damage of seals.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION EDWARDS AIR FORCE BASE, CALIFORNIA		
4. PROJECT TITLE RENOVATE FLIGHT TEST AUDIOVISUAL SUPPORT FACILITY		5. PROJECT NUMBER FSPM880011

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	86 MAR 17
(b) Percent Complete as of Jan 90	60%
(c) Date 35% Designed	86 SEP 10
(d) Date Design Complete	90 AUG 15
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	177
(b) All Other Design Costs	270
(c) Total	447
(d) Contract	347
(e) In-house	100
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION EDWARDS AIR FORCE BASE, CALIFORNIA		4. PROJECT TITLE JET ENGINE MAINTENANCE FACILITY	
5. PROGRAM ELEMENT 7.28.06	6. CATEGORY CODE 211-157	7. PROJECT NUMBER FSPM913004	8. PROJECT COST($000) 11,600

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
JET ENGINE MAINTENANCE FACILITY	SF	78,000	110	8,580
SUPPORTING FACILITIES				1,820
UTILITIES	LS			(1,070)
PAVEMENTS	LS			(375)
SITE IMPROVEMENTS	LS			(375)
SUBTOTAL				10,400
CONTINGENCY (5%)				520
TOTAL CONTRACT COST				10,920
SUPERVISION, INSPECTION AND OVERHEAD (6%)				655
TOTAL REQUEST				11,575
TOTAL REQUEST (ROUNDED)				11,600
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(4,500)

10. Description of Proposed Construction: Reinforced concrete foundations and floor slab, non-sparking floor cover, structural steel frame, masonry walls, roof system and other necessary support. Air Conditioning: 25 Tons.

11. REQUIREMENT: 78,000 SF ADEQUATE: 0 SUBSTANDARD: 69,842 SF

PROJECT: Construct a jet engine maintenance facility. (Current Mission)

REQUIREMENT: An adequate facility to support aircraft flight test operations. Engines from the test center, including chase, test pilot, test bed and other supporting aircraft, will be repaired and maintained in this facility. This facility also supports jet engine repair and maintenance requirements of specialty aircraft from Armaments Division, Eglin AFB, Florida. Additionally, this facility will be used to provide repair and maintenance on jet engines from numerous classified programs and for service of the C-17 and Advanced Tactical Fighter in the 1990's. The Automated Test System Jet Engine Accessories (ATSJEA) supports maintenance and repair of jet engine instrumentation used to evaluate engine design and performance.

CURRENT SITUATION: The existing facility, built in 1954, is beyond economical repair and is to be demolished upon completion of this project. The present facility can no longer support jet engine maintenance requirements. It has an outdated ventilation system, an inefficient heating/cooling system, hazardous work areas, worn-out floors, deteriorating roof and an inefficient utility system. The technical library lacks adequate storage space. The afterburner and cleaning parts shops have inadequate ventilation, exposing personnel to an unhealthy environment. The workload on the jet engine bays totally saturates all available work space. Technicians are forced to work in the aisles and

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION EDWARDS AIR FORCE BASE, CALIFORNIA		
4. PROJECT TITLE JET ENGINE MAINTENANCE FACILITY		5. PROJECT NUMBER FSPM913004

leave engines outside the building until space is available. There is insufficient storage space for tools which are presently stored outside in work bays and hallways. Intermediate shop repair for some engines is being contracted out at an annual cost of $2.7M. This cost is expected to increase as the ability to support the mission decreases due to the inadequate facilities. Contracting out of jet engine maintenance and repair is not a satisfactory solution. The long turnaround time impacts flight test schedules. Also, a special means of transportation is needed to deliver the engines to the nearest contractor, located 80 miles away. An in-house capability is required to evaluate jet engine flight test performance. There is no existing space for the newly required ATSJEA lab.
IMPACT IF NOT PROVIDED: Continued work in inadequate and hazardous facilities endangers the health of personnel, increases the risk of fire, and degrades support of existing and programmatic aircraft systems. Intermediate shop repair will be continued to be contracted out. The loss of this facility or any major shutdown time will impact the mission of the Flight Test Center.
ADDITIONAL: There is no critera/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION EDWARDS AIR FORCE BASE, CALIFORNIA		
4. PROJECT TITLE JET ENGINE MAINTENANCE FACILITY		5. PROJECT NUMBER FSPM913004

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 DEC 15
(b) Percent Complete as of Jan 90	80%
(c) Date 35% Designed	89 AUG 01
(d) Date Design Complete	90 JUN 15
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	675
(b) All Other Design Costs	176
(c) Total	851
(d) Contract	700
(e) In-house	151
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations:

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
AUTOMATED TEST SYSTEM JET ENGINE ACCESSORIES (ATSJEA)	3080	1987	4500

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION MARCH AIR FORCE BASE, CALIFORNIA	4. COMMAND STRATEGIC AIR COMMAND	5. AREA CONST COST INDEX 1.22

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 89	688	3315	1012		120					5,135
b. End FY 1995	612	2897	1041		120					4,670

7. INVENTORY DATA ($000)

a. Total Acreage: (0)	
b. Inventory Total As Of: (30 SEP 89)	0
c. Authorization Not Yet In Inventory:	0
d. Authorization Requested In This Program:	1,050
e. Authorization Included In Following Program: (FY 92)	7,810
f. Planned In Next Three Program Years:	14,720
g. Remaining Deficiency:	0
h. Grand Total:	23,580

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
442-765	TROOP SUBSISTENCE WAREHOUSE	9,700 SF	1,050	APR 89	SEP 89
		TOTAL:	1,050		

9a. Future Projects: Included in the Following Program (FY 92)

179-475	1003AT ARMS TRAINING FACILITIES	LS	610
721-312	DORMITORY	240 PN	7,200
		TOTAL:	7,810

9b. Future Projects: Typical Planned Next Three Years:

136-664	UPGRADE RUNWAY THRESHOLD LIGHTING	LS	530
442-000	KC-10 COMBS EXPANSION	LS	1,100
610-112	LAW CENTER	6,800 SF	890
610-127	BASE CIVIL ENGINEER COMPLEX	71,200 SF	12,200

10. Mission or Major Functions: HQ 15th AF, 22d Air Refueling wing with two squadrons (KC-10A and KC-135), 425 Air Refueling wing-AFRES (KC-135), Tactical Airlift Group (AFRES), Tactical Fighter Group (ANG).

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION MARCH AIR FORCE BASE, CALIFORNIA		4. PROJECT TITLE TROOP SUBSISTENCE WAREHOUSE	
5. PROGRAM ELEMENT 1.18.96	6. CATEGORY CODE 442-765	7. PROJECT NUMBER PCZP900004	8. PROJECT COST($000) 1,050

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
TROOP SUBSISTENCE WAREHOUSE AND COLD STORAGE FACILITY	SF	9,700		766
TROOP SUBSISTENCE WAREHOUSE	SF	8,700	72	(626)
COLD STORAGE	SF	1,000	140	(140)
SUPPORTING FACILITIES				185
SITE IMPROVEMENTS	LS			(5)
UTILITIES	LS			(60)
PAVEMENTS	LS			(85)
SPECIAL FIRE PROTECTION SYSTEMS	LS			(25)
COMMUNICATIONS SUPPORT	LS			(10)
SUBTOTAL				951
CONTINGENCY (5%)				48
TOTAL CONTRACT COST				999
SUPERVISION, INSPECTION AND OVERHEAD (6%)				60
TOTAL REQUEST				1,059
TOTAL REQUEST (ROUNDED)				1,050

10. Description of Proposed Construction: Concrete foundation and slab floor, structural steel frame and concrete roof deck. New troop issue facility to include troop subsistence warehouse and cold storage. Includes seismic considerations, site improvements, pavements, interior communications prewiring, fire protection, all utilities and other necessary support.

11. REQUIREMENT: 12,194 SF ADEQUATE: 2,494 SFSUBSTANDARD: 0

PROJECT: Construct a new troop subsistence warehouse and cold storage facility. (Current Mission)

REQUIREMENT: Storage space is needed for perishable and non-perishable food supplies for 36,000 patrons served each month in base dining facilities and for storage of readiness rations. A one-year supply of rations must be kept on hand at all times. Proper security is needed for all food storage and contingency rations.

CURRENT SITUATION: The present troop issue facility in the commissary resale warehouse is too small and incapable of proper storage and security of the required on-station rations. A lack of adequate storage space for perishable and non-perishable rations leads to spoilage and damage. Overcrowding causes supplies to be improperly stored, wasting time and effort to locate required boxes.

IMPACT IF NOT PROVIDED: Continued problems in handling and storage of Meals Ready to Eat (MRE), perishable and non-perishable rations, will result from overcrowding in the current combined Commissary/Troop Subsistence Warehouse. Increased spoilage and damage will occur. Distributors will be turned away due to lack of space and fewer goods will be stocked.

DD FORM 1391, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION MARCH AIR FORCE BASE, CALIFORNIA		
4. PROJECT TITLE TROOP SUBSISTENCE WAREHOUSE		5. PROJECT NUMBER PCZP900004

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 APR 01
(b) Percent Complete as of Jan 90	100%
(c) Date 35% Designed	89 JUL 15
(d) Date Design Complete	89 SEP 30
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	63
(b) All Other Design Costs	11
(c) Total	74
(d) Contract	63
(e) In-house	11
(4) Construction Start	91 MAR

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION MCCLELLAN AIR FORCE BASE, CALIFORNIA	4. COMMAND AIR FORCE LOGISTICS COMMAND	5. AREA CONST COST INDEX 1.15

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 89	484	2811	13066				30	146	24	16,561
b. End FY 1995		2795	12889				30	146	24	15,884

7. INVENTORY DATA ($000)

a. Total Acreage: (3,720)	
b. Inventory Total As Of: (30 SEP 89)	324,889
c. Authorization Not Yet In Inventory:	137,220
d. Authorization Requested In This Program:	11,200
e. Authorization Included In Following Program: (FY 92)	9,800
f. Planned In Next Three Program Years:	69,350
g. Remaining Deficiency:	0
h. Grand Total:	552,459

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
211-159	ADD TO AND ALTER DEPOT CORROSION CONTROL COMPLEX	106,000 SF	11,200	MAR 89	DEC 89
		TOTAL:	11,200		

9a. Future Projects: Included in the Following Program (FY 92)

441-758	DEPOT MAINTENANCE & SUPPLY FACILITY	117,600 SF	9,800
		TOTAL:	9,800

9b. Future Projects: Typical Planned Next Three Years:

141-764	INTEGRATION SUPPORT FACILITY	82,500 SF	10,600
217-735	ELECTRONICS OVERHAUL & TEST	32,000 SF	4,000
441-000	DEPOT AND ARSENAL	500 KG	750
441-758	SECURE STORAGE FACILITY	120,000 SF	9,400
610-675	COMBAT LOGISTICS SUPPORT CENTER	76,200 SF	9,100

10. Mission or Major Functions: Air Logistics Center responsible for the management and support for F/FB-111, E-3A (AWACS), T-39 and A-10 aircraft, and ground communications-electronics- meteorological (C-E-M) systems. Provides depot level maintenance on above systems except E-3As. Technology Repair Center for ground C-E-M equipment, aircraft fluid-driven hydraulics/pneudraulics systems, and flight control instrumentation. MAC weather-rescue (WC-135, C-130 and helicopters) wing, and airlift (C-21) squadron; HQ 4th AF(AF RESERVE); and a TAC test/evaluation group.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION MCCLELLAN AIR FORCE BASE, CALIFORNIA	4. PROJECT TITLE ADD TO AND ALTER DEPOT CORROSION CONTROL COMPLEX

5. PROGRAM ELEMENT 7.11.11	6. CATEGORY CODE 211-159	7. PROJECT NUMBER PRJY881010	8. PROJECT COST($000) 11,200

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ADD TO AND ALTER DEPOT CORROSION CONTROL COMPLEX	SF	106,000		7,671
ADDITION	SF	55,500	110	(6,105)
ALTERATION	SF	50,500	31	(1,566)
SUPPORTING FACILITIES				2,330
UTILITIES	LS			(1,260)
PAVEMENTS	LS			(435)
SITE IMPROVEMENTS	LS			(125)
INDUSTRIAL WASTE TREATMENT	LS			(465)
COMMUNICATIONS SUPPORT	LS			(45)
SUBTOTAL				10,001
CONTINGENCY (5%)				500
TOTAL CONTRACT COST				10,501
SUPERVISION, INSPECTION AND OVERHEAD (6%)				630
TOTAL REQUEST				11,131
TOTAL REQUEST (ROUNDED)				11,200
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(260)

10. Description of Proposed Construction: Steel structure with concrete foundation and floor slab, insulated walls and roof, temperature, humidity and laminar airflow control, fire protection, airfield access apron, and necessary support. Modify existing building by internal partitioning and reconfigured air handling.

11. REQUIREMENT: 106,000 SF ADEQUATE: 0 SUBSTANDARD: 86,700 SF

PROJECT: Construct a depot corrosion control facility and alter existing facility for aircraft paint stripping. (Current Mission)

REQUIREMENT: Adequate facilities with proper environmental controls to support F/FB-111, A-10, F-4 and F-106 aircraft maintenance and repair programs. Facilities must provide proper corrosion control and refinishing environments that minimize energy consumption and maximize productivity through the use of new techniques such as robotic painting.

CURRENT SITUATION: These activities are now being conducted in two facilities that are inadequate to perform their required functions. The existing paint hangar is functionally inadequate for aircraft painting. The ventilation system has no steady directional flow to remove spray which can damage aircraft finishes and creates problems in personnel protection. Due to the built-in nature of this existing system, it is not economically feasible to upgrade the airflow for spray capture; however, it is readily adaptable for use as a paint stripping facility. Paint stripping is currently accomplished in a covered washrack, where lack of a controllable environment creates severe operating inefficiencies and objectionable chemical odors. During the winter, up to 50% more labor and stripping chemicals are required due to cold's effect on stripping action. The facility is not structurally suitable for upgrading. This project will build a new paint facility and will modify the existing paint

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION MCCLELLAN AIR FORCE BASE, CALIFORNIA		
4. PROJECT TITLE ADD TO AND ALTER DEPOT CORROSION CONTROL COMPLEX		5. PROJECT NUMBER PRJY881010

facility for paint stripping.

IMPACT IF NOT PROVIDED: Present conditions will continue to drive costly expenditures of manpower, materials and utilities. Excessive industrial waste production of approximately 1,000,000 gallons per year will continue and technological advances such as robotic painting and stripping will be more difficult to implement. Operations will continue to be separated making transportation and management more difficult.

ADDITIONAL: This project was validated by the Joint Services Depot Maintenance Industrial Military Construction Review Panel in March 1986. An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, the new construction/upgrade alternative was found to be the most cost efficient over the life of the project. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION MCCLELLAN AIR FORCE BASE, CALIFORNIA		
4. PROJECT TITLE ADD TO AND ALTER DEPOT CORROSION CONTROL COMPLEX		5. PROJECT NUMBER PRJY881010

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 MAR 01
(b) Percent Complete as of Jan 90	100%
(c) Date 35% Designed	89 JUL 30
(d) Date Design Complete	89 DEC 01
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	684
(b) All Other Design Costs	220
(c) Total	904
(d) Contract	695
(e) In-house	209
(4) Construction Start	90 OCT

b. Equipment associated with this project will be provided from other appropriations:

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
PAINT MIXING AND HANDLING EQUIPMENT	3080	91	260

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION SIERRA ARMY DEPOT, CALIFORNIA	4. COMMAND	5. AREA CONST COST INDEX 0.00

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 89	2	26								28
b. End FY 1995	2	26								28

7. INVENTORY DATA ($000)

a. Total Acreage: (0)	
b. Inventory Total As Of: (30 SEP 89)	0
c. Authorization Not Yet In Inventory:	0
d. Authorization Requested In This Program:	3,650
e. Authorization Included In Following Program: (FY 92)	0
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	0
h. Grand Total:	3,650

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
721-315	STUDENT DORMITORY	120 PN	3,650	MAR 89	MAR 90
		TOTAL:	3,650		

9a. Future Projects: Included in the Following Program (FY 92) NONE

9b. Future Projects: Typical Planned Next Three Years:

10. Mission or Major Functions: US Army post for support. Location of Air Force Combat Ammunition Center which provides combat-oriented training on large-scale conventional ammunition production.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION SIERRA ARMY DEPOT, CALIFORNIA	4. PROJECT TITLE STUDENT DORMITORY

5. PROGRAM ELEMENT [illegible] 12.12	6. CATEGORY CODE 721-315	7. PROJECT NUMBER PAYZ913006	8. PROJECT COST($000) 3,650

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
STUDENT DORMITORY (120 PN)	SF	27,000	110	2,970
SUPPORTING FACILITIES				290
UTILITIES	LS			(110)
PAVEMENTS	LS			(90)
SITE IMPROVEMENTS	LS			(90)
SUBTOTAL				3,260
CONTINGENCY (5%)				163
TOTAL CONTRACT COST				3,423
SUPERVISION, INSPECTION AND OVERHEAD (6%)				205
TOTAL REQUEST				3,628
TOTAL REQUEST (ROUNDED)				3,650

10. Description of Proposed Construction: Reinforced concrete foundation and floor slabs, masonry walls and roof. Includes room-bath-room modules, laundries, storage and lounge areas and other necessary support.
Air Conditioning: 50 Tons. Grade Mix: 4 01-03; 10 04-010; 30 E1-E4; 65 E5-E6; 11 E7-E9.

11. REQUIREMENT: 120 PN ADEQUATE: 0 SUBSTANDARD: 70 PN

PROJECT: Construct student dormitory for the Air Force Combat Ammunition Center (AFCOMAC). (Current Mission)

REQUIREMENT: Adequate transient quarters for students attending AFCOMAC training. This facility must provide day rooms, laundries and study rooms. Several rooms in the facility will also serve as unaccompanied enlisted quarters for AFCOMAC assigned airmen.

CURRENT SITUATION: Students are being housed in two substandard WWII Army barracks. There are not enough rooms for the number of students attending AFCOMAC, and there are no separate female bathrooms. There are no unaccompanied enlisted quarters for AFCOMAC permanent party and only limited suitable housing in the local community due to the remote location. Two WWII temporary wood buildings will be demolished as a result of this project.

IMPACT IF NOT PROVIDED: Overcrowding in substandard quarters will continue to hinder the training experience. Unaccompanied enlisted AFCOMAC staff will continue to live off base in an area where adequate housing is limited.

ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION SIERRA ARMY DEPOT, CALIFORNIA		
4. PROJECT TITLE STUDENT DORMITORY		5. PROJECT NUMBER PAYZ913006

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:

(a) Date Design Started	89 MAR 01
(b) Percent Complete as of Jan 90	65%
(c) Date 35% Designed	89 JUL 31
(d) Date Design Complete	90 MAR 15

(2) Basis:

(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A

(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	125
(b) All Other Design Costs	25
(c) Total	150
(d) Contract	140
(e) In-house	10

(4) Construction Start	91 JAN

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION TRAVIS AIR FORCE BASE, CALIFORNIA	4. COMMAND MILITARY AIRLIFT COMMAND	5. AREA CONST COST INDEX 1.22

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 89	1165	6420	2210	234	269		133	183	57	10,671
b. End FY 1995	1150	6328	2211	234	269		133	183	57	10,565

7. INVENTORY DATA ($000)

a. Total Acreage: (6,863)	
b. Inventory Total As Of: (30 SEP 89)	252,040
c. Authorization Not Yet In Inventory:	128,306
d. Authorization Requested In This Program:	10,800
e. Authorization Included In Following Program: (FY 92)	2,600
f. Planned In Next Three Program Years:	7,760
g. Remaining Deficiency:	0
h. Grand Total:	401,506

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
610-243	ALTER CONSOLIDATED SUPPORT CENTER, PHASE II	193,000 SF	5,800	JAN 90	SEP 90
722-351	DINING FACILITY	18,400 SF	5,000	OCT 89	AUG 90
		TOTAL:	10,800		

9a. Future Projects: Included in the Following Program (FY 92)

813-231	ADD TO AND ALTER ELECTRIC SUBSTATION	10,000 KV	2,600
		TOTAL:	2,600

9b. Future Projects: Typical Planned Next Three Years:

125-554	RELOCATE JET FUEL PIPELINE	9,000 LF	810
610-282	AIR FORCE HEADQUARTERS	5,000 SF	750
721-312	ALTER DORMITORY	300 PN	6,200

10. Mission or Major Functions: Supports a numbered Air Force headquarters, two military airlift wings (one active and one reserve) with C-5 and C-141 aircraft and a major Air Force medical center.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION TRAVIS AIR FORCE BASE, CALIFORNIA	4. PROJECT TITLE ALTER CONSOLIDATED SUPPORT CENTER, PHASE II

5. PROGRAM ELEMENT 4.18.96	6. CATEGORY CODE 610-243	7. PROJECT NUMBER XDAT903001B	8. PROJECT COST($000) 5,800

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ALTER CONSOLIDATED SUPPORT CENTER, PHASE II	SF	193,000	24	4,632
SUPPORTING FACILITIES				375
UTILITIES	LS			(125)
PAVEMENTS	LS			(125)
SITE IMPROVEMENTS	LS			(125)
SUBTOTAL				5,007
CONTINGENCY (10%)				501
TOTAL CONTRACT COST				5,508
SUPERVISION, INSPECTION AND OVERHEAD (6%)				330
TOTAL REQUEST				5,838
TOTAL REQUEST (ROUNDED)				5,800

10. Description of Proposed Construction: All work to convert existing vacated hospital to management space. Includes interior demolition, ventilation system, suspended grid ceiling, pre-wired workstations, raised flooring in command post area, parking and necessary support. Air Conditioning: 330 Tons.

11. REQUIREMENT: 398,657 SF ADEQUATE: 181,128 SF
SUBSTANDARD: 195,300 SF

PROJECT: The second and final phase to alter vacated medical center for use as a consolidated support center. (Current Mission)

REQUIREMENT: A consolidated, centrally located facility to accommodate numerous support functions and provide adequate, properly configured space for a numbered air force headquarters.

CURRENT SITUATION: The 22AF Headquarters, command post, consolidated base personnel office, wing headquarters, plus several other smaller users, are located in 19 widely dispersed, substandard facilities. The David Grant Medical Center has moved into a new facility, vacating a 193,000 SF masonry building. Renovating this facility for a consolidated support center will permit demolition of more than 150,000 SF of WWII and Korean War buildings and provide an adequate, efficient work environment for 13 base functions.

IMPACT IF NOT PROVIDED: These functions will continue to operate from antiquated, substandard facilities with high energy and maintenance costs.

ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide"

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION TRAVIS AIR FORCE BASE, CALIFORNIA		
4. PROJECT TITLE ALTER CONSOLIDATED SUPPORT CENTER, PHASE II		5. PROJECT NUMBER XDAT903001B

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	90 JAN 05
(b) Percent Complete as of Jan 90	2%
(c) Date 35% Designed	90 APR 05
(d) Date Design Complete	90 SEP 15
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	300
(b) All Other Design Costs	100
(c) Total	400
(d) Contract	300
(e) In-house	100
(4) Construction Start	91 MAR

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION TRAVIS AIR FORCE BASE, CALIFORNIA	4. PROJECT TITLE DINING FACILITY

5. PROGRAM ELEMENT 4.18.96	6. CATEGORY CODE 722-351	7. PROJECT NUMBER XDAT913002	8. PROJECT COST($000) 5,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
DINING FACILITY	SF	18,400	185	3,404
SUPPORTING FACILITIES				1,115
UTILITIES	LS			(220)
PAVEMENTS	LS			(220)
SITE IMPROVEMENTS	LS			(350)
DEMOLITION/REBUILD ATHLETIC COURTS	LS			(260)
ASBESTOS REMOVAL	LS			(65)
SUBTOTAL				4,519
CONTINGENCY (5%)				226
TOTAL CONTRACT COST				4,745
SUPERVISION, INSPECTION AND OVERHEAD (6%)				285
TOTAL REQUEST				5,030
TOTAL REQUEST (ROUNDED)				5,000

10. Description of Proposed Construction: Reinforced concrete foundations and floor slabs, masonry walls, and structural steel framing. Includes refrigerated and dry storage areas, food preparation and support space including the kitchen, trash areas and covered loading dock and other necessary support.
Air Conditioning: 50 Tons.

11. REQUIREMENT: 38,018 SF ADEQUATE: 0 SUBSTANDARD: 49,217 SF
PROJECT: Construct dining facility. (Current Mission)
REQUIREMENT: Adequate dining facilities to properly feed assigned and transient unaccompanied enlisted personnel. This facility must have appropriate food preparation space as well as a suitable dining environment consistent with quality facilities being constructed to attract and retain competent, professional enlisted personnel.
CURRENT SITUATION: At the present time three substandard dining halls serve unaccompanied personnel at Travis. These facilities were required to support three geographically separated dorm areas. The base dormitory upgrade program is consolidating all facilities in one area of the base and a new modern and adequately sized dining hall is needed to support this new complex. Two of the dining facilities cannot be economically upgraded to meet dining hall design requirements necessary to support approximately 2,700 unaccompanied personnel and will be demolished upon completion of this project.
IMPACT IF NOT PROVIDED: Dining hall operations will continue to be performed in substandard facilities which degrade morale which, in turn, has a negative effect on retaining quality enlisted personnel in the Air Force.
ADDITIONAL: This project meets the criteria/scope specified in Part II of

DD FORM 1391, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION TRAVIS AIR FORCE BASE, CALIFORNIA		
4. PROJECT TITLE DINING FACILITY		5. PROJECT NUMBER XDAT913002

Military Handbook 1190, 'Facility Planning and Design Guide'. An economic analysis has been prepared comparing alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present value and benefits of the respective alternatives, new construction (revitalization) was found to be the most cost effective over the life of the project.

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION TRAVIS AIR FORCE BASE, CALIFORNIA		
4. PROJECT TITLE DINING FACILITY		5. PROJECT NUMBER XDAT913002

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 OCT 15
(b) Percent Complete as of Jan 90	20%
(c) Date 35% Designed	90 APR 18
(d) Date Design Complete	90 AUG 13
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	300
(b) All Other Design Costs	100
(c) Total	400
(d) Contract	275
(e) In-house	125
(4) Construction Start	91 JAN

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION VANDENBERG AIR FORCE BASE, CALIFORNIA	4. COMMAND STRATEGIC AIR COMMAND	5. AREA CONST COST INDEX 1.27

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 89	729	2840	1381							4,950
b. End FY 1995	674	2820	1412							4,906

7. INVENTORY DATA ($000)

a. Total Acreage: (99,004)	
b. Inventory Total As Of: (30 SEP 89)	905,383
c. Authorization Not Yet In Inventory:	28,600
d. Authorization Requested In This Program:	29,200
e. Authorization Included In Following Program: (FY 92)	30,700
f. Planned In Next Three Program Years:	47,700
g. Remaining Deficiency:	0
h. Grand Total:	1,041,583

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
390-531	TITAN IV LAUNCH COMPLEX, PHASE I	LS	19,200	SEP 88	OCT 89
921-177	LAND ACQUISITION	LS	10,000		
		TOTAL:	29,200		

9a. Future Projects: Included in the Following Program (FY 92)

390-531	TITAN IV LAUNCH COMPLEX, PHASE II	LS	20,000
442-758	BASE SUPPLY AND COMMERCIAL TRANSPORTATION FACILITY--PH 1	94,500 SF	8,700
880-221	ADD TO AND ALTER AUTOMATIC FIRE DETECTION SYSTEM	LS	2,000
		TOTAL:	30,700

9b. Future Projects: Typical Planned Next Three Years:

116-668	TITAN IV LAUNCH PAD PHASE III	LS	32,800
141-911	MISSILE OPERATIONS BUILDING	14,000 SF	4,650
610-243	GROUP HEADQUARTERS FACILITY	LS	1,600
840-000	WATER SUPPLY	LS	3,850
851-000	UPGRADE BASE ROADS	LS	4,800

10. Mission or Major Functions: Includes a strategic aerospace division headquarters responsible for training of all SAC missile combat crew members; an AFSC Space and Missile Test Organization (SAMTO) activity which manages research and development testing of space, missile and aircraft systems; the Western Space and Missile Center (WSMC) responsible for research, development and testing of ballistic missiles; and the west coast launch site for operation of STS.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION VANDENBERG AIR FORCE BASE, CALIFORNIA	4. PROJECT TITLE TITAN IV LAUNCH COMPLEX, PHASE I

5. PROGRAM ELEMENT 3.51.19	6. CATEGORY CODE 390-531	7. PROJECT NUMBER XUMU880057A	8. PROJECT COST($000) 19,200

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
TITAN IV LAUNCH COMPLEX, PHASE I	LS			94,787
SUBTOTAL				94,787
CONTINGENCY (5%)				4,739
TOTAL CONTRACT COST				99,526
SUPERVISION, INSPECTION AND OVERHEAD (6%)				5,972
TOTAL REQUEST				105,498
TOTAL REQUEST (ROUNDED)				105,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(396,000)
AUTHORIZATION REQUESTED IN FY 91 FOR ENTIRE AMOUNT OF $105M				
PRIOR APPROPRIATION (N/A)				
THIS FY 91 APPROPRIATION REQUEST (PHASE I)				19,200

10. Description of Proposed Construction: Site preparation, utilities, pavements, launch complex foundations and other necessary support. PHASE ONE OF A FOUR-YEAR CONSTRUCTION APPROPRIATION.

11. REQUIREMENT: As required.

PROJECT: Construct an access road, rough grading, and necessary site work and utilities to support Titan IV Launch Pad facilities. (New Mission)

REQUIREMENT: An adequate launch facility for launching Titan IV rockets. These rockets launch critical, national security satellites into orbit. The military space objectives fulfill critical command and communication functions of the highest national priority.

CURRENT SITUATION: The Challenger tragedy reinforced the need for assured access to space. Vital launches have been delayed and created enormous hardship in space reliant or space dependent programs. The Titan IV launch complex will provide a dual launch capability from the west coast providing assured access for national security missions requiring polar orbits.

IMPACT IF NOT PROVIDED: Without this complex, the launch schedule will remain constricted by too few launch sites, nationally critical launches will be delayed, and assured access to space will not be provided.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION

VANDENBERG AIR FORCE BASE, CALIFORNIA

4. PROJECT TITLE TITAN IV LAUNCH COMPLEX, PHASE I	5. PROJECT NUMBER XUMU880057A

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 SEP 01
(b) Percent Complete as of Jan 90	35%
(c) Date 35% Designed	88 NOV 30
(d) Date Design Complete	89 OCT 10
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	300
(b) All Other Design Costs	180
(c) Total	480
(d) Contract	380
(e) In-house	100
(4) Construction Start	90 NOV

b. Equipment associated with this project will be provided from other appropriations:

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
LAUNCH SUPPORT EQUIPMENT	3020	1991-95	35200
LAUNCH SUPPORT EQUIPMENT	3080	1992-95	43000

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION VANDENBERG AIR FORCE BASE, CALIFORNIA	4. PROJECT TITLE ACQUISITION OF LAND OPTION

5. PROGRAM ELEMENT 3.51.19	6. CATEGORY CODE 921-177	7. PROJECT NUMBER XUMU903557	8. PROJECT COST($000) 10,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ACQUISITION OF LAND OPTION	LS			10,000

10. Description of Proposed Construction: Option for acquisition of land adjoining Vandenberg Air Force Base.

11. REQUIREMENT: 55,000 AC ADEQUATE: 0 SUBSTANDARD: 0

PROJECT: Acquires land option to prevent development on private land within the downrange risk assessment line established by Western Space and Missile Center. (New Mission)

REQUIREMENT: Space launch activities require a land use environment free of unacceptable risks to life or property from missile fragmentation or debris fallout on land areas within defined hazard zones. Range safety requires restricting use of adjoining privately-owned land to limit population density and restrict development to compatible levels.

CURRENT SITUATION: Although current land use does not conflict with current or projected space launch programs, existing local land use controls would allow cluster residential development that is incompatible with the risks associated with space launch activities. Owners have submitted a request to develop the area, which would result in a population increase in that area.

IMPACT IF NOT PROVIDED: Development of this area would affect the proposed launch schedule from South Vandenberg AFB. The possibility of a major accident resulting in loss of life and property makes this an unacceptable situation.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

DD FORM 1391, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION FALCON AIR FORCE STATION, COLORADO	4. COMMAND AIR FORCE SPACE COMMAND	5. AREA CONST COST INDEX 1.02

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 89	559	846	324							1,729
b. End FY 1995	621	1012	344							1,977

7. INVENTORY DATA ($000)

a. Total Acreage: (1,833)	
b. Inventory Total As Of: (30 SEP 89)	90,713
c. Authorization Not Yet In Inventory:	7,550
d. Authorization Requested In This Program:	710
e. Authorization Included In Following Program: (FY 92)	1,100
f. Planned In Next Three Program Years:	52,904
g. Remaining Deficiency:	0
h. Grand Total:	152,977

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
131-132	MILSTAR COMMUNICATIONS GROUND TERMINAL	4,000 SF	710	DEC 88	SEP 89
		TOTAL:	710		

9a. Future Projects: Included in the Following Program (FY 92)

130-142	FIRE STATION	LS	1,100
		TOTAL:	1,100

9b. Future Projects: Typical Planned Next Three Years:

131-132	CONSOLIDATED OPERATIONS CENTER, PHASE II	LS	52,904

10. Mission or Major Functions: Supports the 2nd Space Wing and the Consolidated Space Operations Center, the 4th Weather Wing and the 694th Electronic Security Wing.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION PETERSON AIR FORCE BASE, COLORADO	4. COMMAND AIR FORCE SPACE COMMAND	5. AREA CONST COST INDEX 1.01

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 89	1476	1909	1709	8	7	1				5,110
b. End FY 1995	1290	1925	1667	8	7	1				4,898

7. INVENTORY DATA ($000)

a. Total Acreage: (1,157)	
b. Inventory Total As Of: (30 SEP 89)	107,400
c. Authorization Not Yet In Inventory:	31,808
d. Authorization Requested In This Program:	4,050
e. Authorization Included In Following Program: (FY 92)	22,500
f. Planned In Next Three Program Years:	54,700
g. Remaining Deficiency:	0
h. Grand Total:	220,458

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
131-132	MILSTAR COMMUNICATION GROUND TERMINAL	1,750 SF	1,350	NOV 88	JAN 90
721-312	ADD TO AND ALTER DORMITORY, PHASE I	144 PN	2,700	MAR 89	FEB 90
		TOTAL:	4,050		

9a. Future Projects: Included in the Following Program (FY 92)

141-764	CENTRALIZED INTEGRATION SUPPORT FACILITY (PHASE I)	90,000 SF	15,000
311-174	TEST AND EVALUATION SUPPORT FACILITY	10,000 SF	2,200
721-312	ADD TO AND ALTER DORMITORY PHASE II	144 PN	2,400
740-884	ADD TO AND ALTER CHILD CARE CENTER	24,100 SF	2,900
		TOTAL:	22,500

9b. Future Projects: Typical Planned Next Three Years:

141-000	SPACE OPERATIONS TRAINING FACILITY	87,000 SF	12,200
141-764	ADD TO INTEGRATION SUPPORT FACILITY	90,000 SF	18,000
442-758	BASE SUPPLIES & EQUIP WHSE I	39,000 SF	5,400
610-243	SPACE SUPPORT CENTER	90,800 SF	9,500
721-312	ADD TO AND ALTER DORMITORY PH III	138 PN	2,400

10. Mission or Major Functions: This base provides support operations for the North American Air Defense Command headquarters; Space Command Headquarters; the First Space Wing; Falcon AFS; an AF Reserve C-130 unit.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION PETERSON AIR FORCE BASE, COLORADO	4. PROJECT TITLE MILSTAR COMMUNICATION GROUND TERMINAL

5. PROGRAM ELEMENT 3.36.01 NFIP	6. CATEGORY CODE 131-132	7. PROJECT NUMBER TDKA913008	8. PROJECT COST($000) 1,350

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
MILSTAR COMMUNICATION GROUND TERMINAL	SF	1,750	360	630
SUPPORTING FACILITIES				575
UTILITIES	LS			(100)
PAVEMENTS	LS			(100)
SITE IMPROVEMENTS	LS			(45)
HEMP	LS			(330)
SUBTOTAL				1,205
CONTINGENCY (5%)				60
TOTAL CONTRACT COST				1,265
SUPERVISION, INSPECTION AND OVERHEAD (6%)				76
TOTAL REQUEST				1,341
TOTAL REQUEST (ROUNDED)				1,350
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(4,000)

10. Description of Proposed Construction: Reinforced concrete masonry wall, concrete foundation and floor slab, roofing system, raised floor, fire protection and other necessary support. Air Conditioning: 12 Tons.

Air Conditioning: 12 Tons.

11. REQUIREMENT: As required.

PROJECT: Construct an addition to the existing satellite communications facility for the MILSTAR Communication Ground Terminal. (New Mission)

REQUIREMENT: The MILSTAR system provides the National Command Authority (NCA) with worldwide, two-way, anti-jam, survivable, and enduring data and voice communications throughout trans-and-post attack phases of a nuclear war.

CURRENT SITUATION: No other communications system, existing or planned, provides the level of wartime survivability obtainable through the MILSTAR system.

IMPACT IF NOT PROVIDED: Without this project, critical connectivity between NORAD/Space Command, National Command Authority, and other high priority users will be nonexistent, jeopardizing the ability to provide the essential command and control of strategic and tactical forces throughout all levels of conflict.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION PETERSON AIR FORCE BASE, COLORADO		
4. PROJECT TITLE MILSTAR COMMUNICATION GROUND TERMINAL		5. PROJECT NUMBER TDKA913008

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 NOV 01
(b) Percent Complete as of Jan 90	100%
(c) Date 35% Designed	89 MAY 01
(d) Date Design Complete	90 JAN 01
(2) Basis:	
(a) Standard or Definitive Design -	
(b) Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	72
(b) All Other Design Costs	15
(c) Total	87
(d) Contract	75
(e) In-house	12
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations:

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
EHF/UHF COMMUNICATION SYSTEM (VERSION II)	3080	1992	4000

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION PETERSON AIR FORCE BASE, COLORADO	4. PROJECT TITLE ADD TO AND ALTER DORMITORY, PHASE I

5. PROGRAM ELEMENT 1.24.96	6. CATEGORY CODE 721-312	7. PROJECT NUMBER TDKA842000A	8. PROJECT COST($000) 2,700

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ADD TO AND ALTER DORMITORY, (144 PN)	LS			2,072
ALTERATION	SF	26,300	72	(1,894)
ADDITION	SF	3,300	54	(178)
SUPPORTING FACILITIES				230
UTILITIES	LS			(50)
PAVEMENTS	LS			(20)
SITE IMPROVEMENTS	LS			(60)
ASBESTOS ABATEMENT	LS			(100)
SUBTOTAL				2,302
CONTINGENCY (10%)				230
TOTAL CONTRACT COST				2,532
SUPERVISION, INSPECTION AND OVERHEAD (6%)				152
TOTAL REQUEST				2,684
TOTAL REQUEST (ROUNDED)				2,700

10. Description of Proposed Construction: Demolition of existing interior partitions. Renovation to include new finishes, fixtures, plumbing, HVAC, and electrical systems. Addition of new balconies and exterior room entrances. Each floor will include a soundproof laundry room and a dayroom. Storage areas will also be included. Air Conditioning: 40 Tons. Grade Mix: 144 E1-E4.

11. REQUIREMENT: 1,720 PN ADEQUATE: 368 PN SUBSTANDARD: 702 PN

PROJECT: Add to and alter dormitory building 1102. (Current Mission)

REQUIREMENT: A major Air Force objective is to provide unaccompanied enlisted personnel with housing that is conducive to their proper rest, relaxation and personal well-being. To provide properly sized living area for each resident with adequate privacy, semi-private latrines, lounge area and laundry on each floor, storage for occupants within the facility.

CURRENT SITUATION: The existing facility is of masonry/brick construction built in the mid 1960's. The three-story building has double occupancy rooms with a central ("gang") latrine on each floor. Such an arrangement is inadequate by current living standards. Dormitory rooms have exposed masonry walls and loft ceilings, inadequate lighting, obsolete electrical and mechanical systems, inadequate insulation and "gang" style latrines which detract from resident privacy and the flexibility for the use as a coed facility. The building has become an increasing maintenance and operation burden due to aging HVAC, plumbing, and electrical systems and does not conform with current building codes.

IMPACT IF NOT PROVIDED: Substandard living conditions will persist and morale, productivity and career satisfaction of the enlisted force will continue to be degraded. The building will continue to require increased maintenance and will continue to not meet Air Force standards and will not

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION PETERSON AIR FORCE BASE, COLORADO		
4. PROJECT TITLE ADD TO AND ALTER DORMITORY, PHASE I		5. PROJECT NUMBER TDKA842000A

meet current building code requirements.
ADDITIONAL: This project meets the criteria the criteria/scope in Part II of Military Handbook 1190, "Facility Planning and Design Guide". This is the first of four phases involving five dorms, all built in the mid to late 1960's. Phase II for dorm 1154 is programmed for FY92; Phase III, dorm 1164 in FY93; and Phase IV, dorms 1156 and 1158 in FY94.

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION PETERSON AIR FORCE BASE, COLORADO		
4. PROJECT TITLE ADD TO AND ALTER DORMITORY, PHASE I		5. PROJECT NUMBER TDKA842000A

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 MAR 05
(b) Percent Complete as of Jan 90	85%
(c) Date 35% Designed	89 AUG 17
(d) Date Design Complete	90 FEB 18
(2) Basis:	
(a) Standard or Definitive Design -	YES
(b) Where Design Was Most Recently Used -	ROBINS
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	165
(b) All Other Design Costs	
(c) Total	165
(d) Contract	132
(e) In-house	33
(4) Construction Start	91 MAY

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION AVON PARK RANGE, FLORIDA	4. COMMAND TACTICAL AIR COMMAND	5. AREA CONST COST INDEX 0.93

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 89	5	247	92							344
b. End FY 1995	5	243	96							344

7. INVENTORY DATA ($000)

a. Total Acreage: (100,929)	
b. Inventory Total As Of: (30 SEP 89)	2,431
c. Authorization Not Yet In Inventory:	0
d. Authorization Requested In This Program:	700
e. Authorization Included In Following Program: (FY 92)	0
f. Planned In Next Three Program Years:	5,700
g. Remaining Deficiency:	0
h. Grand Total:	8,831

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	CMPL
721-312	DORMITORY	32 PN	700	MAY 86	JUN 87
		TOTAL:	700		

9a. Future Projects: Included in the Following Program (FY 92) NONE

9b. Future Projects: Typical Planned Next Three Years:

136-664	REPLACE RUNWAY LIGHTS	LS	1,000
219-944	RANGE MAINTENANCE COMPLEX	37,140 SF	3,700
724-417	TRANSIENT DORMITORY	30 PN	1,000

10. Mission or Major Functions: Operational aircrew wings and student training wings fly missions at Avon Park Range. Missions can be flown against conventional, tactical or simulated nuclear targets. The range complex includes a paradrop area, an EOD range, an artillary range, a small arms firing range and an electronic combat training range which provides a ground based electronic threat scenario for aircrew training.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION CAPE CANAVERAL AIR FORCE STATION, FLORIDA	4. COMMAND AIR FORCE SYSTEMS COMMAND	5. AREA CONST COST INDEX 0.91

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 89	97	91	239				22	176	92	717
b. End FY 1995	104	90	246				22	176	92	730

7. INVENTORY DATA ($000)

a. Total Acreage: (15,435)	
b. Inventory Total As Of: (30 SEP 89)	262,415
c. Authorization Not Yet In Inventory:	15,800
d. Authorization Requested In This Program:	2,400
e. Authorization Included In Following Program: (FY 92)	69,100
f. Planned In Next Three Program Years:	411,310
g. Remaining Deficiency:	0
h. Grand Total:	761,025

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	CMPL
141-766	CHEMICAL TESTING LABORATORY	12,400 SF	2,400	MAY 88	JAN 89
		TOTAL:	2,400		

9a. Future Projects: Included in the Following Program (FY 92)

151-153	PIER	600 FB	7,800
312-477	CENTAUR PROCESSING COMPLEX	64,500 SF	58,000
610-000	SPACE VEHICLE STORAGE FACILITY	24,300 SF	3,300
		TOTAL:	69,100

9b. Future Projects: Typical Planned Next Three Years:

121-122	HYDRANT FUELING SYSTEM	1,200 GM	5,700
219-944	BASE MAINTENANCE SHOP	120,000 SF	10,000
312-477	MISSILE & SPACE RESEARCH TEST	LS	254,000
422-258	ORDNANCE STORAGE MAGAZINES	12,000 SF	3,800
851-147	WIDEN CAPE ROAD	23,400 SY	1,300

10. Mission or Major Functions: Air Force Systems Command base for DoD, NASA, and AF space program. The 6555 Aerospace Test Group and the Cape facilities are used for launch and test of SLBMs, IRBMs, and space vehicles in equatorial and synchronous orbit and interplanetary space activities. Supports Eastern Missile Test Range. Tenant units include Army, Navy, and Coast Guard.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	380
c. Occupational safety and health:	0

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION CAPE CANAVERAL AIR FORCE STATION, FLORIDA	4. PROJECT TITLE CHEMICAL TESTING LABORATORY

5. PROGRAM ELEMENT 7.28.96	6. CATEGORY CODE 141-766	7. PROJECT NUMBER DBEH903100	8. PROJECT COST($000) 2,400

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
CHEMICAL TESTING LABORATORY	SF	12,400	150	1,860
SUPPORTING FACILITIES				300
UTILITIES	LS			(170)
SITE IMPROVEMENTS	LS			(50)
PAVEMENTS	LS			(30)
FIRE PROTECTION SYSTEM	LS			(25)
COMMUNICATIONS SUPPORT	LS			(25)
SUBTOTAL				2,160
CONTINGENCY (5%)				108
TOTAL CONTRACT COST				2,268
SUPERVISION, INSPECTION AND OVERHEAD (6%)				136
TOTAL REQUEST				2,404
TOTAL REQUEST (ROUNDED)				2,400

10. Description of Proposed Construction: Concrete block walls, concrete slab and foundation and roof system. Includes chemical storage building, chemical waste storage shelter, security fence and lighting, and necessary support. Air Conditioning: 80 Tons.

11. REQUIREMENT: 12,400 SF ADEQUATE: 0 SUBSTANDARD: 9,990 SF

PROJECT: Construct a chemical testing laboratory. (Current Mission)

REQUIREMENT: An adequate facility to provide support for missile launches at both the Kennedy Space Center and Cape Canaveral Air Force Station, naval operations at the Trident Submarine Basin, and flight operations at Patrick AFB. It is critically important to comply with newly imposed state and federal environmental and waste testing requirements prior to disposal of waste products. The laboratory mechanical systems must provide accurate climate control to protect sensitive and expensive laboratory equipment, and must provide the proper setting, test and safety equipment for reliable test data.

CURRENT SITUATION: The existing facility is no longer able to effectively sustain the growing operational requirements. It has become dangerously overcrowded with instrumentation and equipment needed to support new state environmental and waste testing programs. Additional space is not available in or near the existing facility and structural deficiencies are causing severe operational problems. The metal frame construction of the existing facility makes it impossible for the mechanical systems to maintain the stable internal climatic conditions required for proper laboratory operation. Fluctuating temperatures and humidity endanger the accuracy and reliability of test data, causing equipment failures. In 1985, faulty test data caused by internal climatic problems nearly resulted in a delay of the shuttle countdown. Costly attempts to correct

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1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION CAPE CANAVERAL AIR FORCE STATION, FLORIDA		
4. PROJECT TITLE CHEMICAL TESTING LABORATORY		5. PROJECT NUMBER DBEH903100

this situation within the present facility have been only marginally successful.

IMPACT IF NOT PROVIDED: Inadequate facilities will continue to jeopardize the quality and reliability of laboratory support to missile launch, naval and flight operations. The inadequate space will also prevent the development of environmental and waste testing capabilities, forcing the Air Force and NASA to either violate EPA and State environmental regulations and risk heavy fines, or pay exorbitant testing fees.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION

CAPE CANAVERAL AIR FORCE STATION, FLORIDA

4. PROJECT TITLE CHEMICAL TESTING LABORATORY	5. PROJECT NUMBER DBEH903100

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:

(a) Date Design Started	88 MAY 05
(b) Percent Complete as of Jan 90	100%
(c) Date 35% Designed	88 AUG 15
(d) Date Design Complete	89 JAN 30

(2) Basis:

(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A

(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	188
(b) All Other Design Costs	45
(c) Total	233
(d) Contract	166
(e) In-house	67

(4) Construction Start 90 JAN

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION EGLIN AIR FORCE BASE, FLORIDA	4. COMMAND AIR FORCE SYSTEMS COMMAND	5. AREA CONST COST INDEX 0.82

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 89	1654	7064	3794				12	107	64	12,695
b. End FY 1995	1603	6915	3828				12	107	64	12,529

7. INVENTORY DATA ($000)

a. Total Acreage: (463,748)	
b. Inventory Total As Of: (30 SEP 89)	426,129
c. Authorization Not Yet In Inventory:	43,949
d. Authorization Requested In This Program:	4,700
e. Authorization Included In Following Program: (FY 92)	24,300
f. Planned In Next Three Program Years:	26,210
g. Remaining Deficiency:	0
h. Grand Total:	525,288

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
212-213	MISSILE MAINTENANCE FACILITY	9,400 SF	1,900	JUN 89	APR 90
442-758	AIRCRAFT PARTS WAREHOUSE	46,000 SF	2,800	APR 88	MAR 89
		TOTAL:	4,700		

9a. Future Projects: Included in the Following Program (FY 92)

211-000	ALTER AIRCRAFT MAINTENANCE FACILITES	124,426 SF	2,900
310-926	UPGRADE CLIMATIC LABORATORY	136,364 SF	21,400
		TOTAL:	24,300

9b. Future Projects: Typical Planned Next Three Years:

211-000	ALTER AIRCRAFT MAINTENANCE	26,574 SF	6,200
211-157	AIRCRAFT ENGINE INSPECTION AND REPAIR SHOP	35,000 SF	3,850
211-159	CORROSION CONTROL FACILITY	26,201 SF	3,750
214-467	REFUELING VEHICLE MAINTENANCE FACILITY	5,500 SF	900
312-477	SADS XV ELECTRONIC COMBAT TEST SITE	4,200 SF	1,350

10. Mission or Major Functions: The Air Force Systems Command Armament Division is responsible for management, command, control and direction of Air Force Systems Command program for research and development of Air Force non-nuclear munitions; an armament Laboratory; a tenant Tactical Fighter Wing with three F-15 squadrons; the USAF Tactical Air Warfare Center; an MC-130 equipped Special Operations Group of the Air Force Reserve; and an Aerospace Rescue and Recovery Wing of the Military Airlift Command.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION EGLIN AIR FORCE BASE, FLORIDA	4. PROJECT TITLE MISSILE MAINTENANCE FACILITY

5. PROGRAM ELEMENT 2.75.96	6. CATEGORY CODE 212-213	7. PROJECT NUMBER FTFA881011	8. PROJECT COST($000) 1,900

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
MISSILE MAINTENANCE FACILITY	SF	9,400	155	1,457
SUPPORTING FACILITIES				240
UTILITIES	LS			(85)
PAVEMENTS	LS			(90)
SITE IMPROVEMENTS	LS			(65)
SUBTOTAL				1,697
CONTINGENCY (5%)				85
TOTAL CONTRACT COST				1,782
SUPERVISION, INSPECTION AND OVERHEAD (6%)				107
TOTAL REQUEST				1,889
TOTAL REQUEST (ROUNDED)				1,900

10. Description of Proposed Construction: Reinforced concrete foundation and floor, masonry walls, roof system, TEMPEST secure vault, overhead hoist system and other necessary support. Air Conditioning: 10 Tons.

11. REQUIREMENT: 9,400 SF ADEQUATE: 0 SUBSTANDARD: 3,500 SF

PROJECT: Construct a missile maintenance facility. (Current Mission)

REQUIREMENT: An adequate facility is required for maintenance, inspection and repair of missiles assigned to the fighter wing for contingency taskings and to system acquisition offices for operational testing and evaluation (OT&E).

CURRENT SITUATION: The existing facility was designed to accommodate missile requirements of 36 F-4 aircraft. The wing has since grown to 72 F-15 aircraft. Additional missile requirements and increased sophistication have rendered the existing facility much too small and a poor choice for continued missile maintenance use. Increased requirements to support missile OT&E further complicate the problem. Secure facilities, crucial to the success of F-15 improvement programs and development of advanced tactical missiles, do not exist. Critical hangar space has been allocated on a temporary basis for short-term relief. The existing facility will be converted to munitions trailer maintenance use.

IMPACT IF NOT PROVIDED: Missile maintenance will continue to be jeopardized by substandard facilities. Crucial hangar space will not be available for aircraft maintenance, adversely impacting aircraft combat-ready status. Problems with sophisticated missile test and tracking equipment will result from inadequate environmental controls.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION EGLIN AIR FORCE BASE, FLORIDA		
4. PROJECT TITLE MISSILE MAINTENANCE FACILITY		5. PROJECT NUMBER FTFA881011

86-2, "Standard Facility Requirements".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION EGLIN AIR FORCE BASE, FLORIDA		
4. PROJECT TITLE MISSILE MAINTENANCE FACILITY		5. PROJECT NUMBER FTFA881011

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 JUN 01
(b) Percent Complete as of Jan 90	90%
(c) Date 35% Designed	89 SEP 01
(d) Date Design Complete	90 APR 01
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	114
(b) All Other Design Costs	72
(c) Total	186
(d) Contract	135
(e) In-house	51
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION EGLIN AIR FORCE BASE, FLORIDA	4. PROJECT TITLE AIRCRAFT PARTS WAREHOUSE

5. PROGRAM ELEMENT 2.75.96	6. CATEGORY CODE 442-758	7. PROJECT NUMBER FTFA891011	8. PROJECT COST($000) 2,800

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
AIRCRAFT PARTS WAREHOUSE	SF	46,000	48	2,208
SUPPORTING FACILITIES				315
UTILITIES	LS			(105)
PAVEMENTS	LS			(105)
SITE IMPROVEMENTS	LS			(105)
SUBTOTAL				2,523
CONTINGENCY (5%)				126
TOTAL CONTRACT COST				2,649
SUPERVISION, INSPECTION AND OVERHEAD (6%)				159
TOTAL REQUEST				2,808
TOTAL REQUEST (ROUNDED)				2,800

10. Description of Proposed Construction: Reinforced concrete foundation and floor slab, steel frame, metal walls and roof. Includes internal shelving and counters, loading dock, parking and other necessary support.

11. REQUIREMENT: 84,911 SF ADEQUATE: 29,751 SF SUBSTANDARD: 0

PROJECT: Construct an aircraft parts warehouse. (Current Mission)

REQUIREMENT: Adequate warehouse space to store supplies and equipment for an F-15 wing. Locate the warehouse near the flightline to allow maximum responsiveness in handling critical parts. The remaining deficiency will be satisfied through future conversion of existing space.

CURRENT SITUATION: Existing temporary metal storage facilities were designed to support 36 F-4 aircraft. The wing has grown to 72 F-15 aircraft while the storage and warehouse space has remained constant. Existing facilities, which lack adequate environmental controls, are located away from the flightline, resulting in excessive manhours lost awaiting transportation of critical assets from issue points. To facilitate "high-usage" parts delivery, a hangar bay is used for storage on a temporary basis. Upon completion of the new aircraft parts warehouse, the existing facilities will be used for mobility equipment storage. The wing mission has a worldwide mobility commitment, requiring personnel mobility and chemical equipment and disaster preparedness supplies to be stored on base. Existing on-base facilities are too small requiring off-base storage of some of this equipment. During exercises or actual mobility taskings, this equipment must be moved from an off-base government storage facility 16 miles away resulting in unacceptable delays.

IMPACT IF NOT PROVIDED: Critically needed hangar space will remain unavailable for aircraft maintenance. Vital F-15 spares will continue to

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION EGLIN AIR FORCE BASE, FLORIDA		
4. PROJECT TITLE AIRCRAFT PARTS WAREHOUSE		5. PROJECT NUMBER FTFA891011

be ineffectively stored. Movement of mobility equipment will delay mobilization efforts during contingency taskings.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION EGLIN AIR FORCE BASE, FLORIDA		
4. PROJECT TITLE AIRCRAFT PARTS WAREHOUSE		5. PROJECT NUMBER FTFA891011

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 APR 01
(b) Percent Complete as of Jan 90	100%
(c) Date 35% Designed	88 SEP 29
(d) Date Design Complete	89 MAR 13
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	197
(b) All Other Design Costs	48
(c) Total	245
(d) Contract	31
(e) In-house	214
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION HOMESTEAD AIR FORCE BASE, FLORIDA	4. COMMAND TACTICAL AIR COMMAND	5. AREA CONST COST INDEX 0.96

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 89	398	3396	959	252	10		20	335	65	5,435
b. End FY 1995	394	3333	970	252	10		20	335	65	5,379

7. INVENTORY DATA ($000)

a. Total Acreage: (3,383)	
b. Inventory Total As Of: (30 SEP 89)	157,368
c. Authorization Not Yet In Inventory:	5,380
d. Authorization Requested In This Program:	7,900
e. Authorization Included In Following Program: (FY 92)	4,710
f. Planned In Next Three Program Years:	10,770
g. Remaining Deficiency:	0
h. Grand Total:	186,128

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
411-135	JET FUEL STORAGE	52,000 BL	2,400	FEB 89	AUG 90
721-312	ALTER DORMITORIES	438 PN	5,500	FEB 89	AUG 90
		TOTAL:	7,900		

9a. Future Projects: Included in the Following Program (FY 92)

721-312	ALTER AMN PERMANENT PARTY/PCS DORM	210 PN	4,710
		TOTAL:	4,710

9b. Future Projects: Typical Planned Next Three Years:

411-135	JET FUEL STORAGE	50,000 BL	2,600
721-312	ALTER AMN PERMANENT PARTY/PCS DORM	140 PN	2,090
724-417	TRANSIENT DORMITORY	40 PN	3,100
740-443	TEMPORARY LODGING FACILITY	30 UN	2,300
740-884	ADD TO CHILD DEVELOPMENT CENTER	7,010 SF	680

10. Mission or Major Functions: This base hosts a tactical fighter wing equiped with F-16A aircraft, an AFRES tactical fighter wing equipped with F-4 and F-16 aircraft, a tactical control squadron, an AFRES aerospace rescue and recovery squadron, and an ANG fighter intercept group.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION HOMESTEAD AIR FORCE BASE, FLORIDA	4. PROJECT TITLE JET FUEL STORAGE

5. PROGRAM ELEMENT 2.80.35	6. CATEGORY CODE 411-135	7. PROJECT NUMBER KYJL903017	8. PROJECT COST($000) 2,400

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
JET FUEL STORAGE	BL	52,000	36	1,872
SUPPORTING FACILITIES				305
UTILITIES	LS			(105)
PAVEMENTS	LS			(65)
SITE IMPROVEMENTS	LS			(95)
FIRE PROTECTION	LS			(40)
SUBTOTAL				2,177
CONTINGENCY (5%)				109
TOTAL CONTRACT COST				2,286
SUPERVISION, INSPECTION AND OVERHEAD (6%)				137
TOTAL REQUEST				2,423
TOTAL REQUEST (ROUNDED)				2,400

10. Description of Proposed Construction: Construct two JP-4 fuel storage tanks. Includes fuel receiving and transfer system, fence, pavements, environmental protection, and other necessary support.

11. REQUIREMENT: 212,684 BL ADEQUATE: 127,754 BL SUBSTANDARD: 0

PROJECT: Construct jet fuel storage tanks. (New Mission)

REQUIREMENT: Adequate jet fuel storage to satisfy requirements for peacetime operating stock (POS) and war readiness materiel (WRM) storage.

CURRENT SITUATION: WRM fuel is currently stored in off-base leased facilities at Port Everglades, approximately 60 miles away. Homestead AFB and the Miami International Airport share the same pipeline. Homestead is the minority user and must schedule pumping operations around Miami International's pipeline requirements. The pipeline from Port Everglades to Homestead is located above ground at canal crossings. Sabotage or accidents will seriously limit the base's ability to replenish fuel supplies. At present only 60 percent of Homestead's fuel requirements can be stored on base. Storage capacity must be increased to limit the impact of a pipeline disruption.

IMPACT IF NOT PROVIDED: Insufficient on-base fuel storage capacity will continue to adversely impact mission readiness. Completing aircraft sorties required for contingency support may not be possible due to fuel storage and resupply limitations.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION HOMESTEAD AIR FORCE BASE, FLORIDA		
4. PROJECT TITLE JET FUEL STORAGE		5. PROJECT NUMBER KYJL903017

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 FEB 01
(b) Percent Complete as of Jan 90	60%
(c) Date 35% Designed	89 JUN 01
(d) Date Design Complete	90 AUG 01
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	144
(b) All Other Design Costs	
(c) Total	144
(d) Contract	144
(e) In-house	
(4) Construction Start	91 FEB

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION HOMESTEAD AIR FORCE BASE, FLORIDA	4. PROJECT TITLE ALTER DORMITORIES

5. PROGRAM ELEMENT 2.75.96	6. CATEGORY CODE 721-312	7. PROJECT NUMBER KYJL913001	8. PROJECT COST($000) 5,500

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ALTER DORMITORIES (438 PN)	SF	87,500	52	4,550
SUPPORTING FACILITIES				140
COMMUNICATIONS	LS			(40)
UTILITIES	LS			(65)
SITE IMPROVEMENTS	LS			(35)
SUBTOTAL				4,690
CONTINGENCY (10%)				469
TOTAL CONTRACT COST				5,159
SUPERVISION, INSPECTION AND OVERHEAD (6%)				310
TOTAL REQUEST				5,469
TOTAL REQUEST (ROUNDED)				5,500

10. Description of Proposed Construction: Upgrade electrical, structural and mechanical alterations. Convert interior hallways to additional room space and storage; add exterior entrances, lounges, room-bath-room modules, fire protection and other necessary support.
Air Conditioning: 260 Tons. Grade Mix: 438 E1-E4.

11. REQUIREMENT: 1,879 PN ADEQUATE: 0 SUBSTANDARD: 2,090 PN
PROJECT: Alter three dormitories. (Current Mission)
REQUIREMENT: A major Air Force objective is to provide unaccompanied enlisted personnel with housing that will be conducive to their proper rest, relaxation, and personal well-being. Properly designed and furnished quarters which provide some degree of individual privacy are essential to successfully accomplish the increasingly complicated and important jobs these people must perform.
CURRENT SITUATION: The facilities to be altered were constructed over thirty years ago to standards in effect at that time. These facilities lack privacy, adequate living space per occupant, and individual room temperature controls. They have inadequate lighting and fire protection, poor insulation and sound attenuation and obsolete electrical and mechanical systems. This is one phase of a multi-phase program.
IMPACT IF NOT PROVIDED: Substandard living conditions will continue to degrade the morale, productivity and career satisfaction of the enlisted force.
ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION

HOMESTEAD AIR FORCE BASE, FLORIDA

4. PROJECT TITLE ALTER DORMITORIES	5. PROJECT NUMBER KYJL913001

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 FEB 01
(b) Percent Complete as of Jan 90	75%
(c) Date 35% Designed	89 MAY 01
(d) Date Design Complete	90 AUG 01
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	324
(b) All Other Design Costs	12
(c) Total	336
(d) Contract	336
(e) In-house	
(4) Construction Start	91 JAN

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION MACDILL AIR FORCE BASE, FLORIDA	4. COMMAND TACTICAL AIR COMMAND	5. AREA CONST COST INDEX 0.96

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 89	733	4413	861	40	42	2	484	650	45	7,270
b. End FY 1995	777	4408	851	40	42	2	484	650	45	7,299

7. INVENTORY DATA ($000)

a. Total Acreage: (111,877)	
b. Inventory Total As Of: (30 SEP 89)	208,455
c. Authorization Not Yet In Inventory:	11,620
d. Authorization Requested In This Program:	12,250
e. Authorization Included In Following Program: (FY 92)	3,700
f. Planned In Next Three Program Years:	14,310
g. Remaining Deficiency:	0
h. Grand Total:	250,335

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	CMPL
111-111	UPGRADE RUNWAY	LS	8,900	FEB 89	MAY 90
610-284	ADD TO U.S. CENTRAL COMMAND HEADQUARTERS	33,600 SF	3,350	FEB 89	FEB 90
		TOTAL:	12,250		

9a. Future Projects: Included in the Following Program (FY 92)

216-642	CONVENTIONAL MUNITIONS SHOP	17,500 SF	3,700
		TOTAL:	3,700

9b. Future Projects: Typical Planned Next Three Years:

411-135	FUEL STORAGE	LS	3,360
411-135	JET FUEL STORAGE	100,000 BL	3,400
610-249	WING HEADQUARTERS	27,358 SF	1,850
721-312	ALTER DORMITORIES	395 PN	5,700

10. Mission or Major Functions: This base hosts the U S Central Command Headquarters and a tactical training wing with F-16 aircraft

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION MACDILL AIR FORCE BASE, FLORIDA	4. PROJECT TITLE UPGRADE RUNWAY

5. PROGRAM ELEMENT 2.75.96	6. CATEGORY CODE 111-111	7. PROJECT NUMBER NVZR880089	8. PROJECT COST($000) 8,900

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
UPGRADE RUNWAY	SY	205,000	27	5,535
SUPPORTING FACILITIES				2,465
UTILITIES	LS			(560)
PAVEMENTS	LS			(485)
SITE IMPROVEMENTS	LS			(1,420)
SUBTOTAL				8,000
CONTINGENCY (5%)				400
TOTAL CONTRACT COST				8,400
SUPERVISION, INSPECTION AND OVERHEAD (6%)				504
TOTAL REQUEST				8,904
TOTAL REQUEST (ROUNDED)				8,900

10. Description of Proposed Construction: Reseal joints and shoulders, replace selected slabs, repair spalls and overlay runway with asphalt. Resurface overruns, paint runway and taxiway markings. Includes other necessary support.

11. REQUIREMENT: As required.
PROJECT: Upgrade the primary runway. (Current Mission)
REQUIREMENT: An adequate primary instrument runway to support mission aircraft. Upgrade the existing parallel taxiway for use as an alternate runway during upgrade of the primary runway.
CURRENT SITUATION: The primary instrument runway was constructed in 1943. Due to age and traffic, deterioriation has progressed to the point that serious foreign object damage (FOD) hazards and constant maintenance problems exist. Asphalt areas are cracking. The overruns and concrete joint seals have failed. Numerous patches in the runway are loose and failing. Many concrete sections require replacement.
IMPACT IF NOT PROVIDED: Progressive pavement failure greatly increases the risk of FOD and the potential for severe damage to or loss of an aircraft.
ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

DD FORM 1391, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION MACDILL AIR FORCE BASE, FLORIDA		
4. PROJECT TITLE UPGRADE RUNWAY		5. PROJECT NUMBER NVZR880089

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 FEB 01
(b) Percent Complete as of Jan 90	60%
(c) Date 35% Designed	89 JUN 01
(d) Date Design Complete	90 MAY 23
(2) Basis:	
(a) Standard or Definitive Design -	
(b) Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	534
(b) All Other Design Costs	18
(c) Total	552
(d) Contract	552
(e) In-house	
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION MACDILL AIR FORCE BASE, FLORIDA	4. PROJECT TITLE ADD TO U.S. CENTRAL COMMAND HEADQUARTERS

5. PROGRAM ELEMENT 2.18.98	6. CATEGORY CODE 610-284	7. PROJECT NUMBER NVZR893717	8. PROJECT COST($000) 3,350

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ADD TO U.S. CENTRAL COMMAND HEADQUARTERS	SF	33,600	75	2,520
SUPPORTING FACILITIES				510
UTILITIES	LS			(170)
PAVEMENTS	LS			(170)
SITE IMPROVEMENTS	LS			(170)
SUBTOTAL				3,030
CONTINGENCY (5%)				152
TOTAL CONTRACT COST				3,182
SUPERVISION, INSPECTION AND OVERHEAD (6%)				191
TOTAL REQUEST				3,373
TOTAL REQUEST (ROUNDED)				3,350

10. Description of Proposed Construction: A two story addition matching existing architecture. Includes concrete foundations, floor slabs, steel framing, roof system, fire protection, pre-wired workstations and other necessary support. Air Conditioning: 115 Tons.

11. REQUIREMENT: 207,416 SF ADEQUATE: 173,816 SF SUBSTANDARD: 13,211 SF

PROJECT: Add to US Central Command Headquarters (USCENTCOM). (New Mission)

REQUIREMENT: An adequate facility to accommodate current USCENTCOM requirements and programmed increases.

CURRENT SITUATION: The existing USCENTCOM headquarters facility is too small for the full range of mission requirements. Critical mission equipment and personnel are located at seven separated locations. Frequent travel to and from the headquarters facility significantly reduces productivity. The existing in-garrison structure was originally designed for the Rapid Deployment Joint Task Force. USCENTCOM has a significantly broader mission, greater manpower requirements, and wider responsibilities. Programmed and incoming equipment and personnel will greatly overtax an already inadequate facility.

IMPACT IF NOT PROVIDED: Equipment and personnel will remain dispersed over seven locations on MacDill AFB. Programmed arrival of additional personnel will greatly complicate existing space shortfalls. USCENTCOM mission effectiveness will be significantly impeded.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

1. COMPONENT AIR FORCE	**FY 1991 MILITARY CONSTRUCTION PROJECT DATA** (computer generated)	2. DATE
3. INSTALLATION AND LOCATION MACDILL AIR FORCE BASE, FLORIDA		
4. PROJECT TITLE ADD TO U.S. CENTRAL COMMAND HEADQUARTERS		5. PROJECT NUMBER NVZR893717

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 FEB 01
(b) Percent Complete as of Jan 90	90%
(c) Date 35% Designed	89 JUL 01
(d) Date Design Complete	90 FEB 01
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	183
(b) All Other Design Costs	
(c) Total	183
(d) Contract	183
(e) In-house	
(4) Construction Start	91 FEB

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE

3. INSTALLATION AND LOCATION MOODY AIR FORCE BASE, GEORGIA	4. COMMAND TACTICAL AIR COMMAND	5. AREA CONST COST INDEX 0.84

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 89	311	2778	458						13	3,560
b. End FY 1995	315	2853	461						13	3,642

7. INVENTORY DATA ($000)

a. Total Acreage: (11,805)	
b. Inventory Total As Of: (30 SEP 89)	109,129
c. Authorization Not Yet In Inventory:	4,110
d. Authorization Requested In This Program:	4,400
e. Authorization Included In Following Program: (FY 92)	7,800
f. Planned In Next Three Program Years:	4,400
g. Remaining Deficiency:	0
h. Grand Total:	129,839

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	CMPL
721-312	ALTER DORMITORIES	298 PN	4,400	JUL 87	JUL 90
		TOTAL:	4,400		

9a. Future Projects: Included in the Following Program (FY 92)

111-111	IMPROVE RUNWAY 18L-36R	LS	7,800
		TOTAL:	7,800

9b. Future Projects: Typical Planned Next Three Years:

149-962	CONTROL TOWER	1 EA	2,200
721-312	ALTER DORMITORY	156 PN	2,200

10. Mission or Major Functions: This base hosts a tactical fighter wing of F-16 aircraft.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION MOODY AIR FORCE BASE, GEORGIA	4. PROJECT TITLE ALTER DORMITORIES

5. PROGRAM ELEMENT 2.75.96	6. CATEGORY CODE 721-312	7. PROJECT NUMBER QSEU873006	8. PROJECT COST($000) 4,400

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ALTER DORMITORIES (298 PN)	SF	60,000	58	3,480
SUPPORTING FACILITIES				305
SITE IMPROVEMENTS	LS			(155)
UTILITIES	LS			(95)
COMMUNICATIONS SUPPORT	LS			(55)
SUBTOTAL				3,785
CONTINGENCY (10%)				379
TOTAL CONTRACT COST				4,164
SUPERVISION, INSPECTION AND OVERHEAD (6%)				250
TOTAL REQUEST				4,414
TOTAL REQUEST (ROUNDED)				4,400

10. Description of Proposed Construction: All structural, electrical and mechanical alterations to include conversion of interior corridors into semi-private baths, provide exterior entrances and includes other necessary support. Air Conditioning: 90 Tons. Grade Mix: 298 E1-E4.

11. REQUIREMENT: 1,172 PN ADEQUATE: 630 PN SUBSTANDARD: 454 PN

PROJECT: Alter two dormitories. (Current Mission)

REQUIREMENT: A major Air Force objective is to provide unaccompanied enlisted personnel with housing that will be conducive to their proper rest, relaxation, and personal well-being. Properly designed and furnished quarters which provide some degree of individual privacy are essential to the successful accomplishment of the increasingly complicated and important jobs these people must perform.

CURRENT SITUATION: The existing dormitories are substandard. Gang latrines, poor insulation, inadequate lighting, lack of privacy and insufficient space typify the deficiencies.

IMPACT IF NOT PROVIDED: Unsatisfactory and inadequate living quarters for unaccompanied personnel assigned will continue to adversely impact the Air Force program for maintaining an effective all-volunteer force.

ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION MOODY AIR FORCE BASE, GEORGIA		
4. PROJECT TITLE ALTER DORMITORIES		5. PROJECT NUMBER QSEU873006

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	87 JUL 09
(b) Percent Complete as of Jan 90	60%
(c) Date 35% Designed	87 JUL 30
(d) Date Design Complete	90 JUL 01
(2) Basis:	
(a) Standard or Definitive Design -	YES
(b) Where Design Was Most Recently Used -	SHAW
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	249
(b) All Other Design Costs	
(c) Total	249
(d) Contract	249
(e) In-house	
(4) Construction Start	91 JAN

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION ROBINS AIR FORCE BASE, GEORGIA	4. COMMAND AIR FORCE LOGISTICS COMMAND	5. AREA CONST COST INDEX 0.81

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 89	743	3233	14718		52					18,746
b. End FY 1995	742	3198	14740		52					18,732

7. INVENTORY DATA ($000)

a. Total Acreage: (8,790)	
b. Inventory Total As Of: (30 SEP 89)	372,027
c. Authorization Not Yet In Inventory:	37,665
d. Authorization Requested In This Program:	21,200
e. Authorization Included In Following Program: (FY 92)	28,400
f. Planned In Next Three Program Years:	43,250
g. Remaining Deficiency:	0
h. Grand Total:	502,542

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	CMPL
141-764	ADD TO AND ALTER INTEGRATION SUPPORT FACILITY	LS	8,300	OCT 88	JUL 90
217-712	ADVANCED MICROELECTRONICS FACILITY	63,000 SF	9,400	OCT 88	JUL 90
217-742	COMBAT COMMUNICATIONS EQUIPMENT MAINTENANCE FACILITY	35,100 SF	3,500	OCT 88	MAY 90
		TOTAL:	21,200		

9a. Future Projects: Included in the Following Program (FY 92)

141-459	ADD TO AND ALTER ALERT CREW FACILITY	29,800 SF	2,350
217-735	ALTER JOINT STARS AUTOMATIC TEST FACILITY	14,000 SF	2,750
219-944	BASE ENGINEER COMPLEX PHASE I	98,000 SF	6,000
441-758	SECURE STORAGE FACILITY	325,000 SF	15,000
811-147	UPGRADE UNINTERRUPTIBLE POWER SUPPLY	2,500 SF	2,300
		TOTAL:	28,400

9b. Future Projects: Typical Planned Next Three Years:

136-661	APPROACH LIGHTING SYSTEM	3,000 LF	1,600
141-764	AMRAAM-MISSILE SUPPORT FACILITY	30,600 SF	4,800
141-821	PACKAGING COMPLEX	98,800 SF	4,600
610-127	BASE ENGINEER COMPLEX (PHASE II)	34,700 SF	3,700
610-711	ADD TO AND ALTER LOGISTICS SYSTEMS OPERATIONS CENTER	23,000 SF	2,950

10. Mission or Major Functions: Includes an Air Force Logistics Center responsible for logistics management and support for F-15, C-130 and C-141 aircraft, helicopters, and air-to-air missiles. Provides depot level maintenance on above ground aircraft. Technology Repair Center for aircraft airborne electronics (avionics), life support systems and gyroscopes instrumentation. Tenant Units: Strategic Air Command Air

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION ROBINS AIR FORCE BASE, GEORGIA	4. COMMAND AIR FORCE LOGISTICS COMMAND	5. AREA CONST COST INDEX 0.81

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of										
b. End FY 19										

7. INVENTORY DATA ($000)

a. Total Acreage:
b. Inventory Total As Of:
c. Authorization Not Yet In Inventory:
d. Authorization Requested In This Program:
e. Authorization Included In Following Program:
f. Planned In Next Three Program Years:
g. Remaining Deficiency:
h. Grand Total:

Refueling (KC-135) Wing; Air Force Reserve Headquarters.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION ROBINS AIR FORCE BASE, GEORGIA	4. PROJECT TITLE ADD TO AND ALTER INTEGRATION SUPPORT FACILITY

5. PROGRAM ELEMENT 9.11.15	6. CATEGORY CODE 141-764	7. PROJECT NUMBER UHHZ903001	8. PROJECT COST($000) 8,300

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ADD TO AND ALTER INTEGRATION SUPPORT FACILITY	LS			5,739
ADDITION	SF	81,000	68	(5,508)
ALTERATION	LS			(231)
SUPPORTING FACILITIES				1,685
UTILITIES	LS			(985)
SITE IMPROVEMENTS	LS			(115)
PAVEMENTS	LS			(135)
COMMUNICATIONS SUPPORT	LS			(450)
SUBTOTAL				7,424
CONTINGENCY (5%)				371
TOTAL CONTRACT COST				7,795
SUPERVISION, INSPECTION AND OVERHEAD (6%)				468
TOTAL REQUEST				8,263
TOTAL REQUEST (ROUNDED)				8,300

10. Description of Proposed Construction: Concrete foundation, floor slab, wall with brick veneer, and roof system; environmentally controlled laboratory and computer terminal areas; raised floor in computer areas; secure conference areas and vaults; and all necessary support.
Air Conditioning: 80 Tons.

11. REQUIREMENT: 260,600 LS ADEQUATE: 179,600 LS SUBSTANDARD: 0

PROJECT: Add to and alter an integration support facility. (Current Mission)

REQUIREMENT: Environmentally controlled laboratory space to house mission essential embedded computer systems in support of operational flight programs, and special operating forces and electronic warfare missions. Separate user areas designed to enhance the protection of classified data, information and briefings in support of sensitive areas such as Special Operating Forces are also required.

CURRENT SITUATION: Existing facilities are fully utilized and do not have sufficient space to accommodate the expanded embedded computer operations.

IMPACT IF NOT PROVIDED: Failure to provide this facility will require these operations to be contracted out at a much higher cost to the Air Force. In addition, program control, flexibility and overall program efficiency will be sacrificed.

ADDITIONAL: An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost efficient over the life of the project, with amortization of all costs in less than one year. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION ROBINS AIR FORCE BASE, GEORGIA		
4. PROJECT TITLE ADD TO AND ALTER INTEGRATION SUPPORT FACILITY		5. PROJECT NUMBER UHHZ903001

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 OCT 01
(b) Percent Complete as of Jan 90	65%
(c) Date 35% Designed	89 AUG 01
(d) Date Design Complete	90 JUL 01
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	558
(b) All Other Design Costs	
(c) Total	558
(d) Contract	558
(e) In-house	
(4) Construction Start	90 OCT

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION ROBINS AIR FORCE BASE, GEORGIA	4. PROJECT TITLE ADVANCED MICROELECTRONICS FACILITY

5. PROGRAM ELEMENT 1.12.15	6. CATEGORY CODE 217-712	7. PROJECT NUMBER UHHZ903002	8. PROJECT COST($000) 9,400

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ADVANCED MICROELECTRONICS FACILITY	SF	63,000	94	5,922
SUPPORTING FACILITIES				2,500
UTILITIES	LS			(685)
PAVEMENTS	LS			(185)
SITE IMPROVEMENTS	LS			(175)
CLEAN ROOM ENVIRONMENTAL SYSTEM	LS			(1,250)
COMMUNICATIONS SUPPORT	LS			(75)
SPECIAL FIRE PROTECTION SYSTEM	LS			(130)
SUBTOTAL				8,422
CONTINGENCY (5%)				421
TOTAL CONTRACT COST				8,843
SUPERVISION, INSPECTION AND OVERHEAD (6%)				531
TOTAL REQUEST				9,374
TOTAL REQUEST (ROUNDED)				9,400
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(3,640)

10. Description of Proposed Construction: Concrete foundation, floor slab and basement, concrete block walls with brick veneer, and roof system. Includes design space, laboratory, computer and shop space, a 19,000 SF Class 10,000 clean room, zoned and computerized fire protection system, basement area for utilities and special requirements such as deionized water, liquid nitrogen, compressed air, and vacuum systems. Air Conditioning: 75 Tons.

11. REQUIREMENT: 604,200 SF ADEQUATE: 541,200 SF SUBSTANDARD: 0

PROJECT: Construct an advanced microelectronics facility. (Current Mission)

REQUIREMENT: A facility to support the sophisticated test, evaluation, repair and fabrication of microelectronic circuits and assemblies deemed faulty by depot repair activities. The facility will support both engineering development and production activities for microelectronic project areas and workloads. Functions performed by shop personnel will be fully supported within the facility by engineering design, prototyping, and failure analysis capabilities. This facility will be designed to minimize contamination and electrostatic discharge, either of which can easily damage or destroy contemporary microelectronic circuits.

CURRENT SITUATION: Millions of dollars worth of microelectronic circuits, known as hybrids, are being discarded when incorrectly diagnosed as faulty by automatic test equipment. Automatic test equipment is essential for efficient testing of integrated systems, but the existing equipment is very limited in its diagnostic capabilities for individual hybrid circuitry. Because of insufficient test and repair capability, hybrids are being procured and supported as expendable supplies. The average cost of a hybrid circuit is $2145, and the estimated total cost of hybrids that

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION ROBINS AIR FORCE BASE, GEORGIA		
4. PROJECT TITLE ADVANCED MICROELECTRONICS FACILITY		5. PROJECT NUMBER UHHZ903002

will be replaced in one year is $43 million. These costs are increasing dramatically as new systems are developed due to the increasing reliance on microelectronic technologies in avionics applications.
IMPACT IF NOT PROVIDED: Failure to build this facility will leave the depot with insufficient capability to diagnose and repair hybrid circuits and will preclude realization of extraordinary monetary savings.
ADDITIONAL: An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost efficient over the life of the project with amortization of all costs in less than three years. The requirement for this project was validated by the Joint Service Depot Maintenance Industrial Military Construction Review Panel in May 1988. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION ROBINS AIR FORCE BASE, GEORGIA		
4. PROJECT TITLE ADVANCED MICROELECTRONICS FACILITY		5. PROJECT NUMBER UHHZ903002

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 OCT 01
(b) Percent Complete as of Jan 90	65%
(c) Date 35% Designed	89 AUG 01
(d) Date Design Complete	90 JUL 01
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	520
(b) All Other Design Costs	68
(c) Total	588
(d) Contract	510
(e) In-house	78
(4) Construction Start	90 OCT

b. Equipment associated with this project will be provided from other appropriations:

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
TEST/REPAIR EQUIPMENT	3080	92	1400
TEST/REPAIR EQUIPMENT	3080	93	1540
TEST/REPAIR EQUIPMENT	3080	94	700

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION ROBINS AIR FORCE BASE, GEORGIA	4. PROJECT TITLE COMBAT COMMUNICATIONS EQUIPMENT MAINTENANCE FACILITY

5. PROGRAM ELEMENT 2.74.22	6. CATEGORY CODE 217-742	7. PROJECT NUMBER UHHZ890020	8. PROJECT COST($000) 3,500

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
COMBAT COMMUNICATIONS EQUIPMENT MAINTENANCE FACILITY	SF	35,100	66	2,317
SUPPORTING FACILITIES				835
UTILITIES	LS			(125)
PAVEMENTS	LS			(520)
SITE IMPROVEMENTS	LS			(190)
SUBTOTAL				3,152
CONTINGENCY (5%)				158
TOTAL CONTRACT COST				3,310
SUPERVISION, INSPECTION AND OVERHEAD (6%)				199
TOTAL REQUEST				3,509
TOTAL REQUEST (ROUNDED)				3,500

10. Description of Proposed Construction: Reinforced concrete foundation and floor slab, structural steel frame, masonry walls and roof system. Includes fire protection system, security lighting, and other necessary support. Air Conditioning: 50 Tons.

11. REQUIREMENT: 59,709 SF ADEQUATE: 24,609 SF SUBSTANDARD: 1,750 SF

PROJECT: Construct a combat communications equipment maintenance facility. (Current Mission)

REQUIREMENT: An adequate facility in which to maintain specialized combat communications equipment, vehicles and electric power generators. The facility must support equipment and personnel for four newly expanded Quick Reaction Packages (QRP) and be sited to provide outside training space. Vehicle space is required to perform 72-hour redeployment turnaround servicing. Special safety and environmental safeguards are required also.

CURRENT SITUATION: The QRP workcenter is currently sharing space with two other workcenters, and the four QRPs have no adequate facility. The new QRPs have doubled the number of personnel required to maintain this mission. Ancilliary components of the QRPs are stored in separate facilities. The generator/refrigeration workcenters have grown from 42 to 133 persons causing a shop and storage space shortage. Vehicles are stored in two main vehicle yards (one is unimproved) while others are dispersed to host shops. Vehicle maintenance is done in a two-stall service station with most work performed outside, in the elements. The wash rack accommodates one vehicle and is totally inadequate for a 478 vehicle fleet. The increase in personnel and equipment are required to meet critical tactical command and control missions during wartime. There are no alternatives to new construction.

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION ROBINS AIR FORCE BASE, GEORGIA		
4. PROJECT TITLE COMBAT COMMUNICATIONS EQUIPMENT MAINTENANCE FACILITY	5. PROJECT NUMBER UHHZ890020	

IMPACT IF NOT PROVIDED: Failure to provide this facility will adversely affect the readiness capability and mission.
ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION ROBINS AIR FORCE BASE, GEORGIA		
4. PROJECT TITLE COMBAT COMMUNICATIONS EQUIPMENT MAINTENANCE FACILITY		5. PROJECT NUMBER UHHZ890020

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 OCT 01
(b) Percent Complete as of Jan 90	70%
(c) Date 35% Designed	89 AUG 01
(d) Date Design Complete	90 MAY 01
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	298
(b) All Other Design Costs	
(c) Total	298
(d) Contract	200
(e) In-house	98
(4) Construction Start	91 JAN

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE

3. INSTALLATION AND LOCATION HICKAM AIR FORCE BASE, HAWAII	4. COMMAND PACIFIC AIR FORCES	5. AREA CONST COST INDEX 1.39

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 89	933	3409	1733				193	467	31	6,766
b. End FY 1995	919	3387	1724				193	467	31	6,721

7. INVENTORY DATA ($000)

a. Total Acreage: (7,826)	
b. Inventory Total As Of: (30 SEP 89)	377,949
c. Authorization Not Yet In Inventory:	6,580
d. Authorization Requested In This Program:	11,420
e. Authorization Included In Following Program: (FY 92)	18,800
f. Planned In Next Three Program Years:	35,290
g. Remaining Deficiency:	0
h. Grand Total:	450,039

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	CMPL
121-111	POL OPERATIONS FACILITY	3,850 SF	1,000	MAY 88	DEC 89
610-121	VEHICLE OPERATIONS/MAINTENANCE FACILITY	8,200 SF	1,300	JUL 85	SEP 86
721-312	DORMITORY	76 PN	6,100	JAN 89	JUN 90
740-884	ADD TO CHILD DEVELOPMENT CENTER	5,100 SF	770	DEC 88	OCT 90
880-000	FIRE PROTECTION - MAINTENANCE HANGAR	LS	2,250	DEC 88	APR 90
		TOTAL:	11,420		

9a. Future Projects: Included in the Following Program (FY 92)

113-321	REPAIR APRONS	32,500 SY	3,700
610-249	BASE SUPPORT CENTER	51,500 SF	8,100
740-316	RECREATION CENTER	30,000 SF	4,150
842-245	UPGRADE WATER DISTRIBUTION SYSTEM	14,000 LF	2,850
		TOTAL:	18,800

9b. Future Projects: Typical Planned Next Three Years:

113-321	ALTER APRON	91,000 SY	10,200
610-249	WING HEADQUARTERS FACILITY	10,000 SF	1,500
721-312	DORMITORY	72 PN	4,900
740-675	ADD TO LIBRARY	3,100 SF	650
812-223	ELECTRICAL DISTRIBUTION SYSTEM	LS	790

10. Mission or Major Functions: A Major Command Headquarters; an airborne command and control squadron with EC-135 aircraft; an Air National Guard group with F-15 and C-130 aircraft; a military airlift detachment with C-135 aircraft; and an air division.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION HICKAM AIR FORCE BASE, HAWAII	4. PROJECT TITLE VEHICLE OPERATIONS/MAINTENANCE FACILITY

5. PROGRAM ELEMENT 2.75.96	6. CATEGORY CODE 610-121	7. PROJECT NUMBER KNMD900818	8. PROJECT COST($000) 1,300

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
VEHICLE OPERATIONS/MAINTENANCE FACILITY	SF	8,200	105	861
SUPPORTING FACILITIES				295
UTILITIES	LS			(180)
SITE IMPROVEMENTS	LS			(95)
COMMUNICATIONS SUPPORT	LS			(20)
SUBTOTAL				1,156
CONTINGENCY (5%)				58
TOTAL CONTRACT COST				1,214
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				79
TOTAL REQUEST				1,293
TOTAL REQUEST (ROUNDED)				1,300

10. Description of Proposed Construction: Reinforced concrete foundation and floor slab, structural steel framing, masonry walls, roof system and fire protection system. Includes operations support, classroom, pre-wired workstations and other necessary support. Air Conditioning: 30 Tons.

11. REQUIREMENT: 50,300 SF ADEQUATE: 42,100 SF SUBSTANDARD: 14,700 SF

PROJECT: Construct a vehicle operations and maintenance facility. (Current Mission)

REQUIREMENT: A facility to efficiently manage the vehicles assigned to the base as well as provide driver education and testing. Adequate space is required to house the management activities, vehicle maintenance and a parking shed to protect the vehicles.

CURRENT SITUATION: The existing facility which houses vehicle operations is a deteriorated 40 year-old World War II building. Heavy termite damage and severe corrosion of steel structural members make upgrade or alteration uneconomical. The maintenance function is currently housed in two trailers which have no restrooms and electrical power is provided by temporary connection of high voltage cables laid on the asphalt pavement of the maintenance compound. A high resource consuming WWII wooden building and two trailers will be demolished as a result of this project.

IMPACT IF NOT PROVIDED: Vehicle operations will continue to occupy deteriorated, cramped and unsafe facilities with an adverse effect on mission support.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

DD FORM 1391, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION HICKAM AIR FORCE BASE, HAWAII		
4. PROJECT TITLE VEHICLE OPERATIONS/MAINTENANCE FACILITY		5. PROJECT NUMBER KNMD900818

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	85 JUL 12
(b) Percent Complete as of Jan 90	100%
(c) Date 35% Designed	85 NOV 06
(d) Date Design Complete	86 SEP 19
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	60
(b) All Other Design Costs	60
(c) Total	120
(d) Contract	85
(e) In-house	35
(4) Construction Start	91 JAN

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION HICKAM AIR FORCE BASE, HAWAII	4. PROJECT TITLE DORMITORY

5. PROGRAM ELEMENT 2.75.96	6. CATEGORY CODE 721-312	7. PROJECT NUMBER KNMD913312	8. PROJECT COST($000) 6,100

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
DORMITORY (76 PN)	SF	40,000	115	4,600
SUPPORTING FACILITIES				890
UTILITIES	LS			(530)
PAVEMENTS	LS			(180)
SITE IMPROVEMENTS	LS			(130)
COMMUNICATIONS SUPPORT	LS			(50)
SUBTOTAL				5,490
CONTINGENCY (5%)				275
TOTAL CONTRACT COST				5,765
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				375
TOTAL REQUEST				6,140
TOTAL REQUEST (ROUNDED)				6,100

10. Description of Proposed Construction: Reinforced concrete foundation and floor slabs, masonry walls, roof system, fire protection system, utilities and other necessary support. Area includes room-bath-room modules, laundry rooms, storage, lounge areas and support space. Includes building and equipment maintainability features and O&M manuals. Air Conditioning: 125 Tons. Grade Mix: 22 E1-E4; 19 E5-E6; 35 E7-E9.

11. REQUIREMENT: 1,484 PN ADEQUATE: 780 PN SUBSTANDARD: 497 PN

PROJECT: Construct an enlisted personnel dormitory (Current Mission)

REQUIREMENT: A major Air Force objective provides unaccompanied enlisted personnel with housing conducive to their proper rest, relaxation and personal well-being. Properly designed and furnished quarters providing some degree of individual privacy are essential to the successful accomplishment of the increasingly complicated and important jobs these people must perform.

CURRENT SITUATION: The base has insufficient facilities to accommodate the unaccompanied enlisted personnel housing. Local rentals and utilities are so expensive enlisted personnel cannot afford to live off base. This project is the first phase of a multi-phased program to satisfy the total requirement.

IMPACT IF NOT PROVIDED: Adequate living quarters will continue to be unavailable resulting in degradation of morale, productivity, and career satisfaction for unaccompanied enlisted personnel.

ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

DD FORM 1391, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION HICKAM AIR FORCE BASE, HAWAII		
4. PROJECT TITLE DORMITORY		5. PROJECT NUMBER KNMD913312

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 JAN 15
(b) Percent Complete as of Jan 90	60%
(c) Date 35% Designed	89 AUG 15
(d) Date Design Complete	90 JUN 15
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	200
(b) All Other Design Costs	120
(c) Total	320
(d) Contract	200
(e) In-house	120
(4) Construction Start	91 JAN

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION HICKAM AIR FORCE BASE, HAWAII		4. PROJECT TITLE FIRE PROTECTION - MAINTENANCE HANGAR	
5. PROGRAM ELEMENT 2.75.96	6. CATEGORY CODE 880-000	7. PROJECT NUMBER KNMD913310	8. PROJECT COST($000) 2,250

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
FIRE PROTECTION - MAINTENANCE HANGAR	LS			1,586
FIRE DETECTION/SUPPRESSION SYSTEM	LS			(350)
DRAFT CURTAINS	SF	3,000	12	(36)
PUMP HOUSE AND FIRE PUMPS	LS			(480)
UNDERGROUND WATER STORAGE	LS			(470)
UNDERGROUND FOAM RETENTION TANK	LS			(250)
SUPPORTING FACILITIES				340
UTILITIES	LS			(140)
SITE IMPROVEMENTS	LS			(150)
CATHODIC PROTECTION	LS			(50)
SUBTOTAL				1,926
CONTINGENCY (10%)				193
TOTAL CONTRACT COST				2,119
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				138
TOTAL REQUEST				2,257
TOTAL REQUEST (ROUNDED)				2,250

10. Description of Proposed Construction: Install heat/smoke detectors, fire alarm control panels, wet pipe closed head sprinkler system, under aircraft automatic fire detection/suppression system, building transmitters and interface transmitters.

11. REQUIREMENT: As required.

PROJECT: Install fire protection/detection systems in aircraft fuel systems maintenance dock. (Current Mission)

REQUIREMENT: Fire detection/suppression systems are required in facilities that house high value, mission critical weapon systems. This is a continuing program to correct fire, safety and health hazards to ensure a safe environment for our people and our mission critical assets.

CURRENT SITUATION: This hangar has no automatic fire protection coverage and houses multiple high value mission aircraft. While new facilities are designed and constructed with fire protection systems, some existing facilities remain vulnerable. A $10 million dollar aircraft was recently saved because the fire suppression system worked properly. The effectiveness of the system that prevented destruction of the aircraft in that recent incident underscores the importance of providing adequate fire protection measures in aircraft hangars.

IMPACT IF NOT PROVIDED: Without this project personnel and aircraft will continue to be at risk.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION HICKAM AIR FORCE BASE, HAWAII		
4. PROJECT TITLE FIRE PROTECTION - MAINTENANCE HANGAR		5. PROJECT NUMBER KNMD913310

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 DEC 30
(b) Percent Complete as of Jan 90	60%
(c) Date 35% Designed	89 AUG 01
(d) Date Design Complete	90 APR 01
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	60
(b) All Other Design Costs	35
(c) Total	95
(d) Contract	60
(e) In-house	35
(4) Construction Start	91 FEB

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION WHEELER AIR FORCE BASE, HAWAII	4. COMMAND PACIFIC AIR FORCES	5. AREA CONST COST INDEX 1.44

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 89	9	743	114				247	736	311	2,160
b. End FY 1995	72	760	115				247	736	311	2,241

7. INVENTORY DATA ($000)

a. Total Acreage: (1,391)	
b. Inventory Total As Of: (30 SEP 89)	32,814
c. Authorization Not Yet In Inventory:	0
d. Authorization Requested In This Program:	3,500
e. Authorization Included In Following Program: (FY 92)	0
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	0
h. Grand Total:	36,314

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
171-476	COMBAT ARMS TRAINING AND MAINTENANCE FACILITIES	9,400 SF	1,400	MAR 88	JUN 90
610-243	ADD TO AND ALTER GROUP OPERATIONS FACILITY	37,700 SF	2,100	JUN 89	APR 90
		TOTAL:	3,500		

9a. Future Projects: Included in the Following Program (FY 92) NONE

9b. Future Projects: Typical Planned Next Three Years:

10. Mission or Major Functions: A Pacific Air Force base hosting an Air Base Squadron, Air Division, and Electronics Security Squadron.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION WHEELER AIR FORCE BASE, HAWAII	4. PROJECT TITLE COMBAT ARMS TRAINING AND MAINTENANCE FACILITIES

5. PROGRAM ELEMENT 2.75.96	6. CATEGORY CODE 171-476	7. PROJECT NUMBER YVEW903011	8. PROJECT COST($000) 1,400

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
COMBAT ARMS TRAINING AND MAINTENANCE FACILITIES	SF	9,400		1,068
MARKSMANSHIP TRAINING BUILDING	SF	5,400	120	(648)
TARGET STORAGE AND REPAIR BUILDING	SF	4,000	105	(420)
SUPPORTING FACILITIES				200
UTILITIES	LS			(55)
PAVEMENTS	LS			(50)
SITE IMPROVEMENTS	LS			(70)
COMMUNICATIONS SUPPORT	LS			(10)
DEMOLITION	SF	3,250	4	(15)
SUBTOTAL				1,268
CONTINGENCY (5%)				63
TOTAL CONTRACT COST				1,331
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				87
TOTAL REQUEST				1,418
TOTAL REQUEST (ROUNDED)				1,400

10. Description of Proposed Construction: Concrete foundation, floor slab, masonry walls, roof system, fire protection system, security system, utilities and other necessary support. Includes classroom, supplies, administration, tools, weapons maintenance, weapons/ammo storage, and target/ miscellaneous storage areas in one building; and target storage/ repair and range target storage/repair areas in a separate building.
Air Conditioning: 15 Tons.

11. REQUIREMENT: 9,400 SF ADEQUATE: 0 SUBSTANDARD: 3,285 SF

PROJECT: Construct combat arms training and maintenance (CATM) facilities. (Current Mission)

REQUIREMENT: Provide adequate facilities to support combat arms training. A continuous training program insures safe handling of weapons, familiarity with weapons capabilities, and maintenance of firing accuracy.

CURRENT SITUATION: Existing five CATM facilities are grossly inadequate and deteriorated beyond economical repair. Two are temporary wooden buildings over 45 years old infested with termites, and three are World War II Quonset huts relocated to their present locations in 1967. The CATM branch at Wheeler AFB is responsible for small arms training of all Air Force personnel assigned to Hickam AFB and satellite installations. Additionally, it provides specialty weapons training involving such weapons as machine guns, rockets, grenade launchers, shot guns and sniper rifles. The CATM branch operates a multi-range complex with 28 to 42 students daily. In addition, the average weekend training load for the Hawaii Air National Guard (HANG) and Air Force Reserve (AFR) personnel who use this facility is in excess of 100 students. Five substandard facilities will be disposed of as a result of this project.

IMPACT IF NOT PROVIDED: Personnel will not receive critical combat arms

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION WHEELER AIR FORCE BASE, HAWAII		
4. PROJECT TITLE COMBAT ARMS TRAINING AND MAINTENANCE FACILITIES		5. PROJECT NUMBER YVEW903011

training.
ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION WHEELER AIR FORCE BASE, HAWAII		
4. PROJECT TITLE COMBAT ARMS TRAINING AND MAINTENANCE FACILITIES		5. PROJECT NUMBER YVEW903011

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 MAR 15
(b) Percent Complete as of Jan 90	35%
(c) Date 35% Designed	89 JUL 27
(d) Date Design Complete	90 JUN 30
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	185
(b) All Other Design Costs	
(c) Total	185
(d) Contract	147
(e) In-house	38
(4) Construction Start	91 FEB

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION WHEELER AIR FORCE BASE, HAWAII	4. PROJECT TITLE ADD TO AND ALTER GROUP OPERATIONS FACILITY

5. PROGRAM ELEMENT 2.74.22	6. CATEGORY CODE 610-243	7. PROJECT NUMBER YVEW880871	8. PROJECT COST($000) 2,100

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ADD TO AND ALTER GROUP OPERATIONS				
FACILITY	SF	37,700		1,765
ADDITION	SF	1,400	42	(59)
ALTERATION	SF	36,300	47	(1,706)
SUPPORTING FACILITIES				30
SITE IMPROVEMENTS	LS			(30)
SUBTOTAL				1,795
CONTINGENCY (10%)				180
TOTAL CONTRACT COST				1,975
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				128
TOTAL REQUEST				2,103
TOTAL REQUEST (ROUNDED)				2,100

10. Description of Proposed Construction: Concrete footings, foundations and floor slabs, masonry walls and roof system. Includes upgrading interior wall/floor areas replacing windows, enclosing first floor porches and other necessary support. Air Conditioning: 150 Tons.

11. REQUIREMENT: 37,700 SF ADEQUATE: 0 SUBSTANDARD: 36,300 SF

PROJECT: Add to and alter group operations facility. (Current Mission)

REQUIREMENT: Upgrade of the present facility to reduce the excessive noise and provide a work environment conducive to tasks performed by professional engineers and add a mechanical room.

CURRENT SITUATION: The present facility is located near the airfield. Excessive noise created by helicopters and aircraft result in an unacceptable work environment for a professional engineering organization. The constant noise from the airfield and adjacent street, which is utilized by tanks and armored personnel carriers, impairs concentration and is disruptive to ordinary telephone conversations, meetings and briefings. The local bioenvironmental engineer conducted a noise level evaluation of the facility and determined it to be well above Air Force standards. These noise levels have a negative impact on the performance, morale, and health of the engineering personnel. There are no other facilities available on Wheeler AFB to support this mission.

IMPACT IF NOT PROVIDED: The engineers and programmers will continue to be exposed to a disruptive office environment.

ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION WHEELER AIR FORCE BASE, HAWAII		
4. PROJECT TITLE ADD TO AND ALTER GROUP OPERATIONS FACILITY		5. PROJECT NUMBER YVEW880871

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 JUN 01
(b) Percent Complete as of Jan 90	65%
(c) Date 35% Designed	89 JUL 25
(d) Date Design Complete	90 APR 01
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	130
(b) All Other Design Costs	40
(c) Total	170
(d) Contract	130
(e) In-house	40
(4) Construction Start	91 APR

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION MOUNTAIN HOME AIR FORCE BASE, IDAHO	4. COMMAND TACTICAL AIR COMMAND	5. AREA CONST COST INDEX 1.11

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 89	438	3357	532						3	4,330
b. End FY 1995	405	3427	584						3	4,419

7. INVENTORY DATA ($000)

a. Total Acreage: (118,732)	
b. Inventory Total As Of: (30 SEP 89)	149,032
c. Authorization Not Yet In Inventory:	27,760
d. Authorization Requested In This Program:	1,350
e. Authorization Included In Following Program: (FY 92)	18,750
f. Planned In Next Three Program Years:	1,970
g. Remaining Deficiency:	0
h. Grand Total:	198,862

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
141-753	ADD TO AND ALTER SQUADRON OPERATIONS FACILITY	11,500 SF	1,350	JAN 89	APR 90
		TOTAL:	1,350		

9a. Future Projects: Included in the Following Program (FY 92)

141-454	PARARESCUE OPERATIONS FACILITY	10,000 SF	1,350
141-753	SQUADRON OPERATIONS FACILITY	6,400 SF	1,250
171-000	RANGE MAINTENANCE FACILITIES/ SAYLOR CREEK	LS	2,500
211-111	MAINTENANCE HANGAR	32,000 SF	4,100
721-312	ALTER AMN PERMANENT PARTY/PCS DORM	137 PN	2,550
911-000	LAND ACQUISITION/SAYLOR CREEK	LS	7,000
		TOTAL:	18,750

9b. Future Projects: Typical Planned Next Three Years:

218-868	ADD/ALTER TEST MEASUREMENT AND DIAGNOSTIC EQUIPMENT FAC	LS	1,350
740-388	EXCHANGE SALES STORE	4,250 SF	620

10. Mission or Major Functions: This base hosts a tactical fighter wing of F-111 aircraft and an aerospace rescue and recovery squadron detachment of MH-60G aircraft.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION MOUNTAIN HOME AIR FORCE BASE, IDAHO	4. PROJECT TITLE ADD TO AND ALTER SQUADRON OPERATIONS FACILITY

5. PROGRAM ELEMENT 2.75.96	6. CATEGORY CODE 141-753	7. PROJECT NUMBER OYZH903009	8. PROJECT COST($000) 1,350

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ADD TO AND ALTER SQUADRON OPERATIONS FACILITY	SF	11,500		1,035
ADDITION	SF	6,900	130	(897)
ALTERATION	SF	4,600	30	(138)
SUPPORTING FACILITIES				120
UTILITIES	LS			(55)
SITE PREPARATION	LS			(35)
COMMUNICATIONS SUPPORT	LS			(30)
SUBTOTAL				1,155
CONTINGENCY (10%)				116
TOTAL CONTRACT COST				1,271
SUPERVISION, INSPECTION AND OVERHEAD (6%)				76
TOTAL REQUEST				1,347
TOTAL REQUEST (ROUNDED)				1,350

10. Description of Proposed Construction: Construct masonry block addition with steel truss, pitched roof, concrete foundations and floors to match existing facilities and other necessary support.
Air Conditioning: 50 Tons.

11. REQUIREMENT: 45,842 SF ADEQUATE: 34,342 SFSUBSTANDARD: 4,600 SF
PROJECT: Add to and alter squadron operations facility. (Current Mission)
REQUIREMENT: An adequate facility for the planning, briefing, training and critiquing aircrews performing advanced tactical air training in the EF-111A aircraft.
CURRENT SITUATION: The existing facility is too small for the assigned squadron operations functions. It lacks adequate office space for standardization/evaluation, classrooms and study areas for student aircrews, and mobility storage. In addition, climate controlled space for intelligence computers is seriously deficient.
IMPACT IF NOT PROVIDED: The capability of the EF-111 squadron to execute assigned taskings and conduct aircrew training will continue to be degraded, adversely affecting the the mission. Intelligence computer equipment will not be provided an adequately controlled operating environment.
ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION

MOUNTAIN HOME AIR FORCE BASE, IDAHO

4. PROJECT TITLE ADD TO AND ALTER SQUADRON OPERATIONS FACILITY	5. PROJECT NUMBER QYZH903009

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 JAN 15
(b) Percent Complete as of Jan 90	95%
(c) Date 35% Designed	89 AUG 15
(d) Date Design Complete	90 APR 15
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	81
(b) All Other Design Costs	
(c) Total	81
(d) Contract	
(e) In-house	81
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION SCOTT AIR FORCE BASE, ILLINOIS	4. COMMAND MILITARY AIRLIFT COMMAND	5. AREA CONST COST INDEX 1.06

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 89	2288	4567	3246	72	14	4	283	261	447	11,182
b. End FY 1995	2269	4484	3251	72	14	4	283	261	447	11,085

7. INVENTORY DATA ($000)

a. Total Acreage: (3,277)	
b. Inventory Total As Of: (30 SEP 89)	223,715
c. Authorization Not Yet In Inventory:	32,360
d. Authorization Requested In This Program:	2,160
e. Authorization Included In Following Program: (FY 92)	18,650
f. Planned In Next Three Program Years:	30,700
g. Remaining Deficiency:	0
h. Grand Total:	307,585

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
740-884	CHILD DEVELOPMENT CENTER	15,000 SF	2,160	MAY 88	APR 90
		TOTAL:	2,160		

9a. Future Projects: Included in the Following Program (FY 92)

130-835	SECURITY POLICE FACILITY	12,600 SF	2,000
211-152	GENERAL PURPOSE AIRCRAFT MAINTENANCE FACILITY	70,500 SF	9,000
722-351	DINING FACILITY/LAND ACQUISITION	18,700 SF	4,350
811-147	UPGRADE ELECTRICAL POWER MAC HEADQUARTERS	LS	3,300
		TOTAL:	18,650

9b. Future Projects: Typical Planned Next Three Years:

131-111		21,700 SF	3,250
610-243	AFCC SYSTEMS ENGINEERING CENTER	36,800 SF	4,900
610-243	GROUP HEADQUARTERS FACILITY	92,200 SF	14,200
721-312	UNACCOMPANIED ENLISTED HSG	300 PN	6,900
730-773	ADD TO CHAPEL CENTER	11,000 SF	1,450

10. Mission or Major Functions: This base supports the US Transportation Command, Headquarters Military Airlift Command, Headquarters Air Force Communications Command, an Aeromedical Airlift Wing, a reserve Aeromedical Airlift Group, Headquarters Air Weather Service, a Communications Command facility checking squadron, USAF Environmental Technical Application Center and a major Air Force Medical Center.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	6,100
c. Occupational safety and health:	0

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION SCOTT AIR FORCE BASE, ILLINOIS	4. PROJECT TITLE CHILD DEVELOPMENT CENTER

5. PROGRAM ELEMENT 4.18.96	6. CATEGORY CODE 740-884	7. PROJECT NUMBER VDYD903000	8. PROJECT COST($000) 2,160

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
CHILD CARE CENTER ANNEX	SF	15,000	105	1,575
SUPPORTING FACILITIES				360
UTILITIES	LS			(145)
PAVEMENTS	LS			(80)
SITE IMPROVEMENTS	LS			(135)
SUBTOTAL				1,935
CONTINGENCY (5%)				97
TOTAL CONTRACT COST				2,032
SUPERVISION, INSPECTION AND OVERHEAD (6%)				122
TOTAL REQUEST				2,154
TOTAL REQUEST (ROUNDED)				2,160

10. Description of Proposed Construction: A one story, masonry facility with brick veneer exterior treatment, sloped roof and other necessary support. Includes playground area and fire sprinkler system.
Air Conditioning: 23 Tons.

11. REQUIREMENT: 53,700 LS ADEQUATE: 16,200 LS SUBSTANDARD: 0
PROJECT: Construct child development center annex. (Current Mission)
REQUIREMENT: A facility which provides adequate space and environment for child development requirements and an atmosphere conducive to the needs of young dependent children of military and civilian personnel assigned to the base.
CURRENT SITUATION: Changes in the make up of the military and civilian population have increased the need for full-day child development services. Single parents, dual working couples, and working spouses have changed the focus from a recreational support activity to a mission support program. Because more children stay at the center ten hours a day, five days a week, improved developmental care facilities must provide more adequate indoor and outdoor play space, learning centers, sleeping facilities and kitchen/food service areas. The child development center provides care and developmental programs for children, ages six months to twelve years of age. In addition to full-day child supervision, the center provides hourly part-time care for support of volunteer programs at the base medical facilities and chapels, a preschool program, before and after school care and a food service program. Expanded program requirements, lower ratios, and increased demand for child care cannot be provided due to lack of space. The capacity of the existing facility is limited to 289 children while the demand is for over 700 children for weekly care. As an interim step, an average of 50 children must meet at

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION SCOTT AIR FORCE BASE, ILLINOIS	
4. PROJECT TITLE CHILD DEVELOPMENT CENTER	5. PROJECT NUMBER VDYD903000

the youth center. Also, the center cannot provide infant care (six weeks to six months of age) and is unable to provide drop-in care on short notice for doctor's appointments, illnesses or emergency situations. Reservations must be taken two weeks in advance, and about 10 children per day must be turned away. The balance of the requirement will be satisfied through a future MILCON project.
IMPACT IF NOT PROVIDED: Personnel will have to find other, often expensive services, and the development of children and morale of personnel will suffer. The center will be unable to meet the infant care requirements at Scott AFB and cause another hardship on young military and civilian families.
ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION SCOTT AIR FORCE BASE, ILLINOIS		
4. PROJECT TITLE CHILD DEVELOPMENT CENTER		5. PROJECT NUMBER VDYD903000

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 MAY 11
(b) Percent Complete as of Jan 90	65%
(c) Date 35% Designed	88 SEP 15
(d) Date Design Complete	90 APR 15
(2) Basis:	
(a) Standard or Definitive Design -	
(b) Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	47
(b) All Other Design Costs	86
(c) Total	133
(d) Contract	108
(e) In-house	25
(4) Construction Start	91 MAR

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION BARKSDALE AIR FORCE BASE, LOUISIANA	4. COMMAND STRATEGIC AIR COMMAND	5. AREA CONST COST INDEX 0.88

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 89	976	5219	1154		264					7,613
b. End FY 1995	951	5123	1157		264					7,495

7. INVENTORY DATA ($000)

a. Total Acreage: (22,382)	
b. Inventory Total As Of: (30 SEP 89)	198,837
c. Authorization Not Yet In Inventory:	12,300
d. Authorization Requested In This Program:	74,710
e. Authorization Included In Following Program: (FY 92)	11,350
f. Planned In Next Three Program Years:	37,030
g. Remaining Deficiency:	0
h. Grand Total:	334,227

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
112-211	ALTER EXPLOSIVE CARGO PAD ACCESS TAXIWAY	LS	1,600	DEC 88	SEP 89
141-177	PEACEKEEPER-GARRISON FACILITIES/LAND ACQUISITION	LS	56,150	JUN 89	JUN 90
141-911	PEACEKEEPER-MISSILE OPERATIONS FACILITY	24,000 SF	3,050	JUN 89	FEB 90
171-000	PEACEKEEPER-TRAINING TRAIN SHELTER	30,000 SF	2,800	JUL 89	APR 90
212-216	PEACEKEEPER-INTEGRATED MAINTENANCE FACILITY	15,000 SF	2,150	JUN 89	FEB 90
217-722	PEACEKEEPER-ADD TO AND ALTER COMMUNICATIONS FACILITY	6,000 SF	730	JUN 89	JUN 90
422-265	MUNITIONS SUPPORT EQUIPMENT STORAGE FACILITY	6,000 SF	630	MAY 88	APR 90
860-000	PEACEKEEPER-ROAD, RAILROAD AND UTILITIES	LS	7,600	JUN 89	JUN 90
		TOTAL:	74,710		

9a. Future Projects: Included in the Following Program (FY 92)

171-212	B-52 FLIGHT SIMULATOR TRAINING FACILITY	25,500 SF	4,700
214-425	ADD TO AND ALTER VEHICLE MAINTENANCE COMPLEX	56,900 SF	6,100
872-247	ALERT TAXIWAY BARRIER	LS	550
		TOTAL:	11,350

9b. Future Projects: Typical Planned Next Three Years:

116-664	KC-10 ENGINE TEST PAD	LS	2,700
121-122	HYDRANT FUELING SYSTEM	LS	16,500
141-459	ALERT VISITATION CENTER	5,000 SF	510
211-175	AIRCRAFT MAINTENANCE DOCK	LS	4,400
812-926	AIRCRAFT PARKING APRON LIGHTING	LS	820

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION BARKSDALE AIR FORCE BASE, LOUISIANA	4. COMMAND STRATEGIC AIR COMMAND	5. AREA CONST COST INDEX 0.88

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of										
b. End FY 19										

7. INVENTORY DATA ($000)

a. Total Acreage:
b. Inventory Total As Of:
c. Authorization Not Yet In Inventory:
d. Authorization Requested In This Program:
e. Authorization Included In Following Program:
f. Planned In Next Three Program Years:
g. Remaining Deficiency:
h. Grand Total:

10. Mission or Major Functions: Active mission support activities include a numbered headquarters responsible for management, command, control and direction of assigned Strategic Air Command units; a heavy bombardment operational wing, including two B-52 squadrons, one KC-135 squadron and one KC-10 squadron, which maintain a bomber and tanker alert force; the location of aerial refueling squadrons of KC-10 aircraft, one active and one reserve associate; and a tenant Air Force Reserve A-10 tactical fighter wing.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION BARKSDALE AIR FORCE BASE, LOUISIANA	4. PROJECT TITLE ALTER EXPLOSIVE CARGO PAD ACCESS TAXIWAY

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
1.18.96	112-211	AWUB875701	1,600

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ALTER EXPLOSIVE CARGO PAD ACCESS TAXIWAY	LS			793
SUPPORTING FACILITIES				580
UTILITIES	LS			(325)
PAVEMENTS	LS			(125)
SITE IMPROVEMENTS	LS			(130)
SUBTOTAL				1,373
CONTINGENCY (10%)				137
TOTAL CONTRACT COST				1,510
SUPERVISION, INSPECTION AND OVERHEAD (6%)				91
TOTAL REQUEST				1,601
TOTAL REQUEST (ROUNDED)				1,600

10. Description of Proposed Construction: Widen center taxiway from 50' to 75' and strengthen to heavy load pavement. Work includes removal of concrete, excavation, new concrete, new asphalt shoulders, taxiway lighting and other necessary support.

11. REQUIREMENT: As required.
PROJECT: Alter explosive cargo pad access taxiway. (Current Mission)
REQUIREMENT: An access taxiway for large aircraft to taxi to the aircraft explosive cargo area and munitions staging area located at the south end of the east apron. An aviation depot squadron operates a weapons storage area and depot which require a hot cargo pad for deliveries. This project for widening and strengthening the taxiway will reduce the risk of damage from a potential explosion by redesignating the existing active cargo pad area as aircraft parking area and relocating the explosive cargo pad to a more remote area.
CURRENT SITUATION: When the existing hot cargo pad is in use, three large aircraft parking positions, 14 Air Force Reserve A-10 aircraft and the south runway supervisory unit are within the explosive safety clearance zone and are exposed to an increased risk of damage from accidental explosion. The A-10 engine run-up pad cannot be utilized while munitions loading/unloading operations are being conducted due to its proximity to the current hot cargo pad. The alternate hot cargo/munitions staging area is in a relatively remote location thus greatly reducing the risk of damage caused by an explosion. This area, however, is not accessible by large aircraft because the 50-foot wide taxiway is too narrow and the pavement is structurally inadequate for large transport aircraft. Relocation of the primary hot cargo pad will also reduce the distance weapons must be transported to and from the depot (from 1.8 miles to 0.5

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION BARKSDALE AIR FORCE BASE, LOUISIANA		
4. PROJECT TITLE ALTER EXPLOSIVE CARGO PAD ACCESS TAXIWAY		5. PROJECT NUMBER AWUB875701

miles).
IMPACT IF NOT PROVIDED: The current hot cargo pad and munitions staging area will continue to be used exposing national defense resources and personnel to potential damage caused by an explosive incident.
ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION BARKSDALE AIR FORCE BASE, LOUISIANA		
4. PROJECT TITLE ALTER EXPLOSIVE CARGO PAD ACCESS TAXIWAY		5. PROJECT NUMBER AWUB875701

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 DEC 01
(b) Percent Complete as of Jan 90	100%
(c) Date 35% Designed	89 MAY 31
(d) Date Design Complete	89 SEP 30
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	105
(b) All Other Design Costs	
(c) Total	105
(d) Contract	74
(e) In-house	31
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION BARKSDALE AIR FORCE BASE, LOUISIANA	4. PROJECT TITLE PEACEKEEPER-GARRISON FACILITIES/LAND ACQUISITION

5. PROGRAM ELEMENT 1.12.15	6. CATEGORY CODE 141-177	7. PROJECT NUMBER PAYZ913350	8. PROJECT COST($000) 56,150

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PEACEKEEPER-GARRISON FACILITIES/LAND ACQUISITION	LS			50,475
SHELTER	SF	144,000	185	(26,640)
ENTRY CONTROL FACILITY	SF	750	540	(405)
ALERT SECURITY/CONTROL CENTER	SF	21,000	190	(3,990)
GARRISON MAINTENANCE FACILITY	SF	22,000	280	(6,160)
RAIL/ROADS/UTILITIES/FENCE	LS			(12,509)
RELOCATE VARIOUS FACILITIES	LS			(500)
REENTRY SYSTEM STORAGE FACILITY	SF	1,600	160	(256)
LAND ACQUISITION	AC	15	1,000	(15)
SUBTOTAL				50,475
CONTINGENCY (5%)				2,524
TOTAL CONTRACT COST				52,999
SUPERVISION, INSPECTION AND OVERHEAD (6%)				3,180
TOTAL REQUEST				56,179
TOTAL REQUEST (ROUNDED)				56,150

10. Description of Proposed Construction: Reinforced concrete foundations and floor slabs, roof and wall systems, fire protection, security, rails, roads, utilities, pavements, site improvement and other necessary support.

11. REQUIREMENT: As required.

PROJECT: Construct garrison facilities to house the Peacekeeper Missile Train System. (New Mission)

REQUIREMENT: Facilities to support the Rail Garrison Missile System. These consist of four Train Alert Shelters (TAS) to house the Peacekeeper Missile Train System; the igloo portion of the TAS to provide interfaces for the launch ports and train egress doors; an entry control facility to control access of personnel, vehicles, and material into the garrison area; security, fencing, and lighting within and around the entire garrison perimeter to assist in deterring unauthorized entry; a Garrison Alert and Security Control Center to house the train alert crew and security forces; Garrison Maintenance Facility (GMF) to perform organizational maintenance on trains including Missile Guidance Control Set and removal and replacement of reentry systems; railroad tracks and roads to provide access to the Garrison facilities; and a standby power facility for standby generators to ensure continuous electrical power is available to the garrison area loads.

CURRENT SITUATION: There are no existing facilities at this location that will satisfy the garrison area requirements of the Peacekeeper Rail Garrison System. The siting of the garrison area will require relocating the existing explosive ordnance disposal range, grenade range and associated roads and utilities. Although adequate for current use, these facilities will be unusable due to their location within the garrison

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION BARKSDALE AIR FORCE BASE, LOUISIANA		
4. PROJECT TITLE PEACEKEEPER-GARRISON FACILITIES/LAND ACQUISITION		5. PROJECT NUMBER PAYZ913350

facility quantity-distance safety zones and require resiting and replacing as part of this project.
IMPACT IF NOT PROVIDED: Garrison system acquisition milestones require that these facilities be provided to support final operational capability. A delay of critical facilities would cause an adverse effect on the Peacekeeper Rail Garrison System deployment.
ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION BARKSDALE AIR FORCE BASE, LOUISIANA		
4. PROJECT TITLE PEACEKEEPER-GARRISON FACILITIES/LAND ACQUISITION		5. PROJECT NUMBER PAYZ913350

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 JUN 15
(b) Percent Complete as of Jan 90	50%
(c) Date 35% Designed	89 SEP 10
(d) Date Design Complete	90 JUN 15
(2) Basis:	
(a) Standard or Definitive Design -	YES
(b) Where Design Was Most Recently Used -	F E WARR
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	4000
(b) All Other Design Costs	560
(c) Total	4560
(d) Contract	4200
(e) In-house	360
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION BARKSDALE AIR FORCE BASE, LOUISIANA	4. PROJECT TITLE PEACEKEEPER-MISSILE OPERATIONS FACILITY

5. PROGRAM ELEMENT 1.12.15	6. CATEGORY CODE 141-911	7. PROJECT NUMBER PAYZ913353	8. PROJECT COST($000) 3,050

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PEACEKEEPER-MISSILE OPERATIONS FACILITY	SF	24,000	96	2,304
SUPPORTING FACILITIES				435
UTILITIES	LS			(225)
PAVEMENTS	LS			(210)
SUBTOTAL				2,739
CONTINGENCY (5%)				137
TOTAL CONTRACT COST				2,876
SUPERVISION, INSPECTION AND OVERHEAD (6%)				173
TOTAL REQUEST				3,049
TOTAL REQUEST (ROUNDED)				3,050

10. Description of Proposed Construction: Reinforced concrete foundations and floor slabs, roof and wall systems as required, site improvements and other necessary support.

11. REQUIREMENT: 24,000 SF ADEQUATE: 0 SUBSTANDARD: 0

PROJECT: Construct a missile operations facility to support the operational control of the Peacekeeper Rail Garrison Missile System. (New Mission)

REQUIREMENT: A facility to house functions that support the operational control of the Peacekeeper Rail Garrison System. It will house operations, command and security control functions.

CURRENT SITUATION: There are no existing facilities at this location that satisfy or accommodate the various missile operations space requirements of the Peacekeeper Rail Garrison System.

IMPACT IF NOT PROVIDED: Garrison system acquisition milestones require that this facility be provided to support final operational capability. A delay of critical facilities would cause an adverse effect in meeting the Peacekeeper Rail Garrison System milestones.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

DD FORM 1391, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION BARKSDALE AIR FORCE BASE, LOUISIANA		
4. PROJECT TITLE PEACEKEEPER-MISSILE OPERATIONS FACILITY		5. PROJECT NUMBER PAYZ913353

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 JUN 01
(b) Percent Complete as of Jan 90	90%
(c) Date 35% Designed	89 SEP 10
(d) Date Design Complete	90 FEB 01
(2) Basis:	
(a) Standard or Definitive Design -	YES
(b) Where Design Was Most Recently Used -	F E WARR
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	400
(b) All Other Design Costs	56
(c) Total	456
(d) Contract	420
(e) In-house	36
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION BARKSDALE AIR FORCE BASE, LOUISIANA	4. PROJECT TITLE PEACEKEEPER-TRAINING TRAIN SHELTER

5. PROGRAM ELEMENT 1.12.15	6. CATEGORY CODE 171-000	7. PROJECT NUMBER PAYZ913355	8. PROJECT COST($000) 2,800

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PEACEKEEPER-TRAINING TRAIN SHELTER	SF	30,000	72	2,160
SUPPORTING FACILITIES				360
UTILITIES	LS			(160)
PAVEMENTS	LS			(200)
SUBTOTAL				2,520
CONTINGENCY (5%)				126
TOTAL CONTRACT COST				2,646
SUPERVISION, INSPECTION AND OVERHEAD (6%)				159
TOTAL REQUEST				2,805
TOTAL REQUEST (ROUNDED)				2,800

10. Description of Proposed Construction: Reinforced concrete footings, and floor slabs, roof and wall systems, site improvements and other necessary support.

11. REQUIREMENT: 30,000 SF ADEQUATE: 0 SUBSTANDARD: 0

PROJECT: Construct a Peacekeeper rail garrison training train shelter. (New Mission)

REQUIREMENT: A facility to house the training train for organizational maintenance and operational deployment training. The shelter simulates the interior of an operational train alert shelter and will permit maintenance and repair training.

CURRENT SITUATION: There are no existing facilities at this location that will satisfy or accommodate the training train requirements.

IMPACT IF NOT PROVIDED: Specialized maintenance training for the rail garrison system would be compromised and continued capability of the weapon system jeopardized.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION
BARKSDALE AIR FORCE BASE, LOUISIANA

4. PROJECT TITLE PEACEKEEPER-TRAINING TRAIN SHELTER	5. PROJECT NUMBER PAYZ913355

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 JUL 01
(b) Percent Complete as of Jan 90	35%
(c) Date 35% Designed	89 NOV 30
(d) Date Design Complete	90 APR 01
(2) Basis:	
(a) Standard or Definitive Design -	YES
(b) Where Design Was Most Recently Used -	F E WARR
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	126
(b) All Other Design Costs	46
(c) Total	172
(d) Contract	132
(e) In-house	40
(4) Construction Start	90 NOV

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION BARKSDALE AIR FORCE BASE, LOUISIANA	4. PROJECT TITLE PEACEKEEPER-INTEGRATED MAINTENANCE FACILITY

5. PROGRAM ELEMENT 1.12.15	6. CATEGORY CODE 212-216	7. PROJECT NUMBER PAYZ913354	8. PROJECT COST($000) 2,150

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PEACEKEEPER-INTEGRATED MAINTENANCE FACILITY	SF	15,000	110	1,650
SUPPORTING FACILITIES				270
UTILITIES	LS			(140)
PAVEMENTS	LS			(130)
SUBTOTAL				1,920
CONTINGENCY (5%)				96
TOTAL CONTRACT COST				2,016
SUPERVISION, INSPECTION AND OVERHEAD (6%)				121
TOTAL REQUEST				2,137
TOTAL REQUEST (ROUNDED)				2,150

10. Description of Proposed Construction: Reinforced concrete foundations and floor slabs, roof and wall systems as required, site improvements and other necessary support. Includes diesel fuel storage tanks and dispensing outlets.

11. REQUIREMENT: 15,000 SF ADEQUATE: 0 SUBSTANDARD: 0

PROJECT: Construct an integrated maintenance facility to support the operational control of the Peacekeeper Rail Garrison Missile System. (New Mission)

REQUIREMENT: A facility to provide maintenance, test, and repair of Peacekeeper electronics and mechanical subassemblies and equipment.

CURRENT SITUATION: There are no existing facilities at this location that satisfy or accommodate the unique maintenance space requirements of the Peacekeeper Rail Garrison System.

IMPACT IF NOT PROVIDED: Garrison system acquisition milestones require that this facility be provided to support final operational capability. Delay of critical facilities would cause an adverse effect in meeting the Peacekeeper Rail Garrison System milestones.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION
BARKSDALE AIR FORCE BASE, LOUISIANA

4. PROJECT TITLE PEACEKEEPER-INTEGRATED MAINTENANCE FACILITY	5. PROJECT NUMBER PAYZ913354

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 JUN 01
(b) Percent Complete as of Jan 90	90%
(c) Date 35% Designed	89 SEP 28
(d) Date Design Complete	90 FEB 01
(2) Basis:	
(a) Standard or Definitive Design -	YES
(b) Where Design Was Most Recently Used -	F E WARR
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	400
(b) All Other Design Costs	56
(c) Total	456
(d) Contract	420
(e) In-house	36
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION BARKSDALE AIR FORCE BASE, LOUISIANA	4. PROJECT TITLE PEACEKEEPER-ROAD, RAILROAD AND UTILITIES

5. PROGRAM ELEMENT 1.12.15	6. CATEGORY CODE 860-000	7. PROJECT NUMBER PAYZ913356	8. PROJECT COST($000) 7,600

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PEACEKEEPER-ROAD, RAILROAD AND UTILITIES	LS			6,810
RAILROAD/ROADS/FENCING	LS			(2,773)
WATER DISTRIBUTION SYSTEM	LS			(130)
HEATING	LS			(130)
ELECTRICAL	LS			(3,326)
COMMUNICATIONS	LS			(239)
SANITARY SEWER SYSTEM	LS			(212)
SUBTOTAL				6,810
CONTINGENCY (5%)				341
TOTAL CONTRACT COST				7,151
SUPERVISION, INSPECTION AND OVERHEAD (6%)				429
TOTAL REQUEST				7,580
TOTAL REQUEST (ROUNDED)				7,600

10. Description of Proposed Construction: Construct roads and utilities, provide rail connections, energy management control system (EMCS) and other necessary support.

11. REQUIREMENT: As required.

PROJECT: Construct access roads, rail and miscellaneous utilities to connect rail garrison facilities to existing base systems. (New Mission)

REQUIREMENT: Roads, rail and utilities to serve the rail garrison facilities. Fiber optic conduit to connect the Garrison with the Wing command post and security control and to connect the Garrison and other support facilities to the existing EMCS.

CURRENT SITUATION: There are insufficient roads, rail and utilities to support the rail garrison and other support facilities.

IMPACT IF NOT PROVIDED: The rail garrison would be inoperable and would not be available to support initial operational capability. A delay of the supporting facilities would adversely affect the Peacekeeper rail garrison mission.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION BARKSDALE AIR FORCE BASE, LOUISIANA		
4. PROJECT TITLE PEACEKEEPER-ROAD, RAILROAD AND UTILITIES		5. PROJECT NUMBER PAYZ913356

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 JUN 15
(b) Percent Complete as of Jan 90	50%
(c) Date 35% Designed	89 SEP 10
(d) Date Design Complete	90 JUN 15
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	138
(b) All Other Design Costs	57
(c) Total	195
(d) Contract	160
(e) In-house	35
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

26-508 O—90——10

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION BANGOR AIR NATIONAL GUARD BASE, MAINE	4. COMMAND AIR NATIONAL GUARD	5. AREA CONST COST INDEX 0.88

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 89	37	217	127							381
b. End FY 1995	33	218	127							378

7. INVENTORY DATA ($000)

a. Total Acreage: (301)	
b. Inventory Total As Of: (30 SEP 89)	23,926
c. Authorization Not Yet In Inventory:	1,500
d. Authorization Requested In This Program:	970
e. Authorization Included In Following Program: (FY 92)	0
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	0
h. Grand Total:	26,396

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	CMPL
610-243	SQUADRON SUPPORT FACILITY	8,800 SF	970	NOV 88	JUL 90
		TOTAL:	970		

9a. Future Projects: Included in the Following Program (FY 92) NONE

9b. Future Projects: Typical Planned Next Three Years:

10. Mission or Major Functions: Operation and support of the Over the Horizon Backscatter Radar System to provide early warning of an enemy air attack. Supports an Ang strategic refueling wing.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. [illegible]LLATION AND LOCATION LORING AIR FORCE BASE, MAINE	4. COMMAND STRATEGIC AIR COMMAND	5. AREA CONST COST INDEX 1.11

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 89	437	2832	494							3,763
b. End FY 1995	436	2785	493							3,714

7. INVENTORY DATA ($000)

a. Total Acreage: (9,780)	
b. Inventory Total As Of: (30 SEP 89)	293,410
c. Authorization Not Yet In Inventory:	42,158
d. Authorization Requested In This Program:	830
e. Authorization Included In Following Program: (FY 92)	10,300
f. Planned In Next Three Program Years:	46,600
g. Remaining Deficiency:	0
h. Grand Total:	393,298

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
422-265	MUNITIONS SUPPORT EQUIPMENT STORAGE FACILITY	6,000 SF	830	MAY 88	APR 90
		TOTAL:	830		

9a. Future Projects: Included in the Following Program (FY 92)

171-212	B-52 FLIGHT SIMULATOR TRAINING FACILITY	18,600 SF	5,200
216-642	ADD TO AND ALTER CONVENTIONAL MUNITIONS SUPPORT FACILITY	17,650 SF	5,100
		TOTAL:	10,300

9b. Future Projects: Typical Planned Next Three Years:

121-122	AIRCRAFT APRON REFUELING SUPPORT, PHASE II	LS	8,500
121-122	AIRCRAFT REFUELING SYSTEM PHASE 1	LS	9,000
130-835	SECURITY POLICE OPERATIONS	34,600 SF	5,400
812-000	ALTER DISTR & TRANSMISSION LINES	LS	6,900
872-247	SECURITY IMPROVEMENTS	LS	1,900

10. Mission or Major Functions: Active mission support activities include a heavy bombardment operational wing including one B-52 squadron and two KC-135 squadrons which maintain a bomber and tanker alert force and an ANG fighter intercept wing.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION ANDREWS AIR FORCE BASE, MARYLAND	4. COMMAND MILITARY AIRLIFT COMMAND	5. AREA CONST COST INDEX 1.04

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 89	1570	4399	2609				468	1080	46	10,172
b. End FY 1995	1563	4362	2603				468	1080	46	10,122

7. INVENTORY DATA ($000)

a. Total Acreage: (7,674)	
b. Inventory Total As Of: (30 SEP 89)	310,608
c. Authorization Not Yet In Inventory:	55,905
d. Authorization Requested In This Program:	3,050
e. Authorization Included In Following Program: (FY 92)	18,850
f. Planned In Next Three Program Years:	22,800
g. Remaining Deficiency:	0
h. Grand Total:	411,213

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
130-142	FIRE/CRASH RESCUE STATION	10,400 SF	1,750	OCT 88	DEC 89
179-475	ADD TO AND ALTER COMBAT ARMS TRAINING FACILITY	13,200 SF	1,300	JAN 89	APR 90
		TOTAL:	3,050		

9a. Future Projects: Included in the Following Program (FY 92)

610-915	OFFICE OF SPECIAL INVESTIGATIONS	108,000 SF	15,000
740-884	ADD TO CHILD DEVELOPMENT CENTER	48,200 SF	3,850
		TOTAL:	18,850

9b. Future Projects: Typical Planned Next Three Years:

211-111	AIR FREIGHT TERMINAL	38,600 SF	3,150
211-193	TEST STAND	8,200 SF	1,000
610-XXX		48,600 SF	10,000
721-312	DORMITORY	240 PN	4,450
740-674	PHYSICAL FITNESS CENTER	31,400 SF	4,200

10. Mission or Major Functions: Support of Headquarters Air Force Systems Command, a Military Airlift Wing which performs special air missions and operational support airlift, a Reserve Military Airlift Wing, an Air National Guard Tactical Fighter Wing, District of Columbia Air National Guard Headquarters, and Malcolm Grow Medical Center.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION ANDREWS AIR FORCE BASE, MARYLAND	4. PROJECT TITLE FIRE/CRASH RESCUE STATION

5. PROGRAM ELEMENT 4.18.96	6. CATEGORY CODE 130-142	7. PROJECT NUMBER AJXF903000	8. PROJECT COST($000) 1,750

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
FIRE/CRASH RESCUE STATION	SF	10,400	135	1,404
SUPPORTING FACILITIES				180
UTILITIES	LS			(65)
PAVEMENTS	LS			(65)
SITE IMPROVEMENTS	LS			(50)
SUBTOTAL				1,584
CONTINGENCY (5%)				79
TOTAL CONTRACT COST				1,663
SUPERVISION, INSPECTION AND OVERHEAD (6%)				100
TOTAL REQUEST				1,763
TOTAL REQUEST (ROUNDED)				1,750

10. Description of Proposed Construction: Reinforced concrete foundation and floors, masonry walls and roof system. Includes vehicle stalls, communication center, sleeping quarters, training rooms, kitchen, dining room, storage and other necessary support. Air Conditioning: 25 Tons.

11. REQUIREMENT: 24,500 SF ADEQUATE: 14,100 SF SUBSTANDARD: 6,617 SF

PROJECT: Construct a fire/crash rescue station. (Current Mission)

REQUIREMENT: Adequate space for fire protection and fire fighting services for base facilities and aircraft crash rescue/fire fighting. The station will house fire fighting equipment and crews, a central fire alarm system, command and control and 24-hour crew quarters.

CURRENT SITUATION: Due to the division of functions and facilities on both sides of the runway, this base has two fire stations. The station on the west side is adequate, but the one on the east side is a 45 year old, deteriorated facility approximately half the size required to support the 25 personnel and seven vehicles assigned. (Five must park outside making starting unpredictable on cold days). This station is responsible for the protection of Air Force One; aircraft transporting members of Congress and foreign dignitaries; and Air Force, Navy, and National Guard aircraft. The reassignment of at least eight additional C-141s will further impact the available equipment and facilities. The station's location does not provide direct access to the runway, ramps, and flightline facilities, slowing response time to the flightline. Two substandard facilities will be disposed of upon completion of this project.

IMPACT IF NOT PROVIDED: Adequate fire protection for Air Force facilities and aircraft will not be provided. Maintenance costs of the existing facilities will continue to increase, and fire fighting effectiveness will be hampered by the lack of an adequate facility. Potential loss of Air

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION ANDREWS AIR FORCE BASE, MARYLAND		
4. PROJECT TITLE FIRE/CRASH RESCUE STATION		5. PROJECT NUMBER AJXF903000

Force lives and property due to slower response time.
ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION ANDREWS AIR FORCE BASE, MARYLAND		
4. PROJECT TITLE FIRE/CRASH RESCUE STATION		5. PROJECT NUMBER AJXF903000

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 OCT 15
(b) Percent Complete as of Jan 90	100%
(c) Date 35% Designed	89 MAR 01
(d) Date Design Complete	89 DEC 01
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	210
(b) All Other Design Costs	20
(c) Total	230
(d) Contract	185
(e) In-house	45
(4) Construction Start	91 APR

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION ANDREWS AIR FORCE BASE, MARYLAND	4. PROJECT TITLE ADD TO AND ALTER COMBAT ARMS TRAINING FACILITY

5. PROGRAM ELEMENT 4.18.96	6. CATEGORY CODE 179-475	7. PROJECT NUMBER AJXF903003	8. PROJECT COST($000) 1,300

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ADD TO AND ALTER COMBAT ARMS TRAINING FACILITY	SF	13,200		1,006
ADDITION	SF	10,200	78	(796)
ALTERATION	SF	3,000	70	(210)
SUPPORTING FACILITIES				155
UTILITIES	LS			(60)
PAVEMENTS	LS			(50)
SITE IMPROVEMENTS	LS			(45)
SUBTOTAL				1,161
CONTINGENCY (5%)				58
TOTAL CONTRACT COST				1,219
SUPERVISION, INSPECTION AND OVERHEAD (6%)				73
TOTAL REQUEST				1,292
TOTAL REQUEST (ROUNDED)				1,300

10. Description of Proposed Construction: Reinforced concrete foundation and firing line floor with shed cover, CMU block walls, overhead steel baffles and backstop, and target assemblies with frames.
Air Conditioning: 13 Tons.

11. REQUIREMENT: 13,200 SF ADEQUATE: 0 SUBSTANDARD: 3,000 SF

PROJECT: Add to and alter combat arms training facility. (Current Mission)

REQUIREMENT: A small arms range to qualify approximately 6,100 military personnel each year. This includes the required annual qualification with the.38 caliber handgun for officers and the M-16 rifle training for enlisted personnel, as well as quarterly weapons training by security police personnel and AFOSI agents.

CURRENT SITUATION: The existing range is only suitable for limited small arms training. Specialized training with the M-16 must be accomplished at Ft Meade, MD, which is saturated. Also, during weapons qualification in the existing indoor range, the instructors are required to wear breathing masks because the current exhaust system does not filter the high concentrations of lead as a result of firing. The existing range is too small to accommodate the large volume of required weapons qualifications each year.

IMPACT IF NOT PROVIDED: Military personnel will continue to schedule small arms training and qualifications at Ft Meade, wasting both valuable manhours and resources. Limited qualifications will continue to be accomplished at Andrews AFB in a facility where air quality cannot meet acceptable standards.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

DD FORM 1391, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION

ANDREWS AIR FORCE BASE, MARYLAND

4. PROJECT TITLE ADD TO AND ALTER COMBAT ARMS TRAINING FACILITY	5. PROJECT NUMBER AJXF903003

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 JAN 15
(b) Percent Complete as of Jan 90	75%
(c) Date 35% Designed	89 JUN 01
(d) Date Design Complete	90 APR 01
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	85
(b) All Other Design Costs	10
(c) Total	95
(d) Contract	68
(e) In-house	27
(4) Construction Start	91 APR

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION FORT GEORGE G MEADE, MARYLAND	4. COMMAND	5. AREA CONST COST INDEX 1.04

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 89	348	1626	41							2,015
b. End FY 1995	346	1627	40							2,013

7. INVENTORY DATA ($000)

a. Total Acreage: (0)	
b. Inventory Total As Of: (30 SEP 89)	0
c. Authorization Not Yet In Inventory:	0
d. Authorization Requested In This Program:	1,800
e. Authorization Included In Following Program: (FY 92)	0
f. Planned In Next Three Program Years:	1,850
g. Remaining Deficiency:	0
h. Grand Total:	3,650

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
610-282	DEFENSE COURIER STATION	14,000 SF	1,800	OCT 88	JUL 90
		TOTAL:	1,800		

9a. Future Projects: Included in the Following Program (FY 92) NONE

9b. Future Projects: Typical Planned Next Three Years:

141-456	ADD TO AND ALTER AFSS OPERATIONS	8,000 SF	1,300
610-282	ADD TO AND ALTER AIR FORCE HEADQUARTERS	4,100 SF	550

10. Mission or Major Functions: US Army post for support. Location for major defense courier transshipment hub. Processes specially classified documents, equipment, and components.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION FORT GEORGE G. MEADE, MARYLAND	4. PROJECT TITLE DEFENSE COURIER STATION

5. PROGRAM ELEMENT 9.12.12	6. CATEGORY CODE 610-282	7. PROJECT NUMBER HEZW913201	8. PROJECT COST($000) 1,800

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
DEFENSE COURIER STATION	SF	14,000	95	1,330
SUPPORTING FACILITIES				270
COMMUNICATIONS SUPPORT	LS			(10)
FIRE PROTECTION SYSTEM	LS			(30)
UTILITIES	LS			(110)
PAVEMENTS	LS			(25)
SITE IMPROVEMENTS	LS			(95)
SUBTOTAL				1,600
CONTINGENCY (5%)				80
TOTAL CONTRACT COST				1,680
SUPERVISION, INSPECTION AND OVERHEAD (6%)				101
TOTAL REQUEST				1,781
TOTAL REQUEST (ROUNDED)				1,800

10. Description of Proposed Construction: Reinforced concrete foundation, floor slab, and loading dock; concrete roof on metal decking, masonry walls and roll-up doors. Includes 20-foot high bay clearance, computer space, oversize access and parking for tractor-trailers and other necessary support. Air Conditioning: 20 Tons.

11. REQUIREMENT: 14,000 SF ADEQUATE: 0 SUBSTANDARD: 0

PROJECT: Construct a defense courier station. (Current Mission)

REQUIREMENT: A facility to act as the major hub in a transportation-storage-handling-delivery network for highly classified materials of qualified activities. The facility must provide truck loading and unloading space, aircraft pallet and commercial container build-up areas, and small package processing space. Property, ranging from one pound flats to 300 pound crates, requires continuous inventory control and protection from unauthorized access.

CURRENT SITUATION: The courier station currently operates from a leased facility. The lease was an emergency measure to handle an unexpectedly high volume of classified material and to correct the security problems generated by overcrowding of the existing station. The lease has not proved acceptable. Local law enforcement officials have not understood the urgency required following an alarm activation. Further, the location in the local community precludes the use of fencing and other physical security measures that might draw undue attention. Consequently, vandalism around the exterior of the facility has occurred. Even with security system upgrades, the facility must still remain open and manned at all times including holidays and during inclement weather when ground transportation is idle.

IMPACT IF NOT PROVIDED: The largest defense courier station will continue

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION FORT GEORGE G. MEADE, MARYLAND		
4. PROJECT TITLE DEFENSE COURIER STATION		5. PROJECT NUMBER HEZW913201

to operate outside the confines of a US military installation from a facility with potential for theft and compromise of vital national security materials.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION FORT GEORGE G. MEADE, MARYLAND		
4. PROJECT TITLE DEFENSE COURIER STATION		5. PROJECT NUMBER HEZW913201

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 OCT 01
(b) Percent Complete as of Jan 90	35%
(c) Date 35% Designed	89 AUG 01
(d) Date Design Complete	90 JUL 01
(2) Basis:	
(a) Standard or Definitive Design -	YES
(b) Where Design Was Most Recently Used -	WRIGHT P
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	100
(b) All Other Design Costs	25
(c) Total	125
(d) Contract	105
(e) In-house	20
(4) Construction Start	91 MAR

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION HANSCOM AIR FORCE BASE, MASSACHUSETTS	4. COMMAND AIR FORCE SYSTEMS COMMAND	5. AREA CONST COST INDEX 1.15

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 89	1124	1002	2730						80	4,936
b. End FY 1995	1070	968	2524						80	4,642

7. INVENTORY DATA ($000)

a. Total Acreage: (1,075)	
b. Inventory Total As Of: (30 SEP 89)	143,098
c. Authorization Not Yet In Inventory:	18,900
d. Authorization Requested In This Program:	3,800
e. Authorization Included In Following Program: (FY 92)	11,200
f. Planned In Next Three Program Years:	27,900
g. Remaining Deficiency:	0
h. Grand Total:	204,898

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
317-311	ELECTROMAGNETIC TECHNOLOGY RESEARCH LABORATORY	15,300 SF	3,800	JUN 89	APR 90
		TOTAL:	3,800		

9a. Future Projects: Included in the Following Program (FY 92)

130-835	SECURITY POLICE OPERATIONS	23,640 SF	3,200
310-919	UPGRADE LABORATORY PHYSICAL PLANT	72,872 SF	8,000
		TOTAL:	11,200

9b. Future Projects: Typical Planned Next Three Years:

310-916	GROUND ELECTRONICS SCIENCE LAB	12,000 SF	2,900
310-916	ADD TO 2ND FLOOR-BLDG 1105A	47,178 SF	5,000
610-281	COMPUTER ACQUISITION CENTER	19,500 SF	4,200
721-312	IMPROVE UNACCOMPANIED ENLISTED HSG	101,364 SF	4,600
740-674	ADD TO AND ALTER PHYSICAL FITNESS CENTER	25,600 SF	2,500

10. Mission or Major Functions: This base hosts the Electronics Systems Division, responsible for management, command, control and direction of all electronics associated research and development with the Air Force Systems Command; the Air Force Geophysics Laboratory conducting and researching terrestrial, atmospheric, and space environments; and the Air Force Computer Acquisition Center of the Air Force Communications Command.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION HANSCOM AIR FORCE BASE, MASSACHUSETTS	4. PROJECT TITLE ELECTROMAGNETIC TECHNOLOGY RESEARCH LABORATORY

5. PROGRAM ELEMENT 7.28.06	6. CATEGORY CODE 317-311	7. PROJECT NUMBER MXRD903006	8. PROJECT COST($000) 3,800

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ELECTROMAGNETIC TECHNOLOGY RESEARCH LABORATORY	SF	15,300	195	2,984
SUPPORTING FACILITIES				425
UTILITIES	LS			(230)
PAVEMENTS	LS			(150)
COMMUNICATION SUPPORT	LS			(45)
SUBTOTAL				3,409
CONTINGENCY (5%)				170
TOTAL CONTRACT COST				3,579
SUPERVISION, INSPECTION AND OVERHEAD (6%)				215
TOTAL REQUEST				3,794
TOTAL REQUEST (ROUNDED)				3,800
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(2,288)

10. Description of Proposed Construction: Steel framed structure, concrete block walls with brick veneer, concrete floor slab and footings, reinforced roof platform and environmental controls. Facility includes a clean room, high bay area and other necessary support.
Air Conditioning: 50 Tons.

11. REQUIREMENT: 47,944 SF ADEQUATE: 17,815 SF SUBSTANDARD: 14,829 SF

PROJECT: Construct an electromagnetic technology research facility. (Current Mission)

REQUIREMENT: An adequate facility in which to conduct electromagnetic technology research for development of Air Force command, control, communications and intelligence systems.

CURRENT SITUATION: Existing facilities are overcrowded and lack the necessary cleanrooms, high bay areas, and size to accommodate the equipment needed for effective scientific research. Equipment for field experiments must be assembled outdoors and often during inclement weather. These conditions impact equipment accuracy and also expose equipment to unauthorized observation. There are no facilities available to conduct far-reaching electromagnetic research to support future Air Force weapons systems.

IMPACT IF NOT PROVIDED: Continued use of inadequate facilities produces inprecise data resulting in costly efforts, pursuit of leads which may prove false, product delays, unauthorized monitoring and unnecessary high risks in fielding weapons systems.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

DD FORM 1391, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION HANSCOM AIR FORCE BASE, MASSACHUSETTS		
4. PROJECT TITLE ELECTROMAGNETIC TECHNOLOGY RESEARCH LABORATORY		5. PROJECT NUMBER MXRD903006

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 JUN 01
(b) Percent Complete as of Jan 90	90%
(c) Date 35% Designed	89 OCT 01
(d) Date Design Complete	90 APR 01
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	302
(b) All Other Design Costs	18
(c) Total	320
(d) Contract	238
(e) In-house	82
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations:

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
RADAR ABSORBER/MMIC EQUIPMENT	3600	1989	350
MMIC EQUIPMENT	3600	1990	150
MMIC EQUIPMENT	3600	1991	1788

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1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION K I SAWYER AIR FORCE BASE, MICHIGAN	4. COMMAND STRATEGIC AIR COMMAND	5. AREA CONST COST INDEX 1.06

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 89	468	3024	390							3,882
b. End FY 1995	455	2981	395							3,831

7. INVENTORY DATA ($000)

a. Total Acreage: (5,202)	
b. Inventory Total As Of: (30 SEP 89)	196,328
c. Authorization Not Yet In Inventory:	0
d. Authorization Requested In This Program:	2,700
e. Authorization Included In Following Program: (FY 92)	9,100
f. Planned In Next Three Program Years:	21,500
g. Remaining Deficiency:	0
h. Grand Total:	229,628

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
149-962	CONTROL TOWER	LS	2,700	DEC 88	JUN 90
		TOTAL:	2,700		

9a. Future Projects: Included in the Following Program (FY 92)

211-179	FUEL CELL MAINTENANCE DOCK	35,000 SF	7,800
872-247	SECURITY FENCE	LS	1,300
		TOTAL:	9,100

9b. Future Projects: Typical Planned Next Three Years:

113-321	ADD TO AIRCRAFT PARKING APRON AND WARM-UP PAD	76,800 SY	16,000
812-000	ELECTRICAL SYSTEM UPGRADE	LS	5,500

10. Mission or Major Functions: Active mission support activities include a heavy bombardment operational wing including one B-52 squadron and two KC-135 squadrons which maintain a bomber and tanker alert force.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION K.I. SAWYER AIR FORCE BASE, MICHIGAN		4. PROJECT TITLE CONTROL TOWER	
5. PROGRAM ELEMENT 3.51.14	6. CATEGORY CODE 149-962	7. PROJECT NUMBER LWRC870202	8. PROJECT COST($000) 2,700

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
CONTROL TOWER	LS			1,425
SUPPORTING FACILITIES				1,005
COMMUNICATIONS SUPPORT	LS			(300)
UTILITIES	LS			(415)
SITE IMPROVEMENTS	LS			(50)
PAVEMENTS	LS			(145)
FIRE PROTECTION	LS			(95)
SUBTOTAL				2,430
CONTINGENCY (5%)				122
TOTAL CONTRACT COST				2,552
SUPERVISION, INSPECTION AND OVERHEAD (6%)				153
TOTAL REQUEST				2,705
TOTAL REQUEST (ROUNDED)				2,700

10. Description of Proposed Construction: Reinforced concrete footing and floor slabs, masonry walls, and structural steel frame, control tower cab with tinted double glazing, supervision and training areas. Includes fire protection systems and other necessary support.

Air Conditioning: 20 Tons.

11. REQUIREMENT: 1 EA ADEQUATE: 0 SUBSTANDARD: 1 EA

PROJECT: Construct control tower for aircraft flight control operations. (Current Mission)

REQUIREMENT: An adequate facility which will provide controllers a clear view of the runways, traffic patterns, alert areas and parking areas to ensure adequate and safe aircraft movement on and around the airfield. Additional floor space, larger windows and higher ceilings are necessary for tower controllers to observe aircraft throughout the traffic pattern. The facility must also be adequately sized and environmentally controlled to accommodate the increase in personnel and equipment required to support the mission at K I Sawyer AFB.

CURRENT SITUATION: Because of the height of the current tower, smaller aircraft are difficult, and at times impossible, to see until they are over the runway. Traffic advisories and sequencing of aircraft under such conditions are extremely difficult. The present control room is too small to meet controller needs. The low ceiling restricts the view of aircraft overhead and floor space is extremely limited when every position is manned and training is in progress.

IMPACT IF NOT PROVIDED: Flight safety will continue to be compromised under these operating conditions.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION K.I. SAWYER AIR FORCE BASE, MICHIGAN		
4. PROJECT TITLE CONTROL TOWER		5. PROJECT NUMBER LWRC870202

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 DEC 15
(b) Percent Complete as of Jan 90	35%
(c) Date 35% Designed	89 AUG 31
(d) Date Design Complete	90 JUN 30
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	100
(b) All Other Design Costs	75
(c) Total	175
(d) Contract	125
(e) In-house	50
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION WURTSMITH AIR FORCE BASE, MICHIGAN	4. COMMAND STRATEGIC AIR COMMAND	5. AREA CONST COST INDEX 1.03

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 89	415	2826	346							3,587
b. End FY 1995	415	2797	355							3,567

7. INVENTORY DATA ($000)

a. Total Acreage: (5,221)	
b. Inventory Total As Of: (30 SEP 89)	149,946
c. Authorization Not Yet In Inventory:	45,640
d. Authorization Requested In This Program:	960
e. Authorization Included In Following Program: (FY 92)	97,460
f. Planned In Next Three Program Years:	10,250
g. Remaining Deficiency:	0
h. Grand Total:	304,256

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE		COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
740-884	ADD TO AND ALTER CHILD DEVELOPMENT CENTER		LS	960	JAN 89	APR 90
		TOTAL:		960		

9a. Future Projects: Included in the Following Program (FY 92)

130-142	PEACEKEEPER-FIRE STATION	3,750	SF	820
141-177	PEACEKEEPER-GARRISON FACILITIES		LS	58,000
171-000	PEACEKEEPER-TRAINING TRAIN SHELTER	30,000	SF	3,350
212-216	PEACEKEEPER-MISSILE OPERATIONS MAINTENANCE FACILITY	39,000	SF	6,300
217-722	PEACEKEEPER-ADD TO COMMUNICATIONS MAINTENANCE FAC	6,000	SF	930
442-758	PEACEKEEPER-ADD TO AND ALTER WAREHOUSE	11,900	SF	890
721-312	PEACEKEEPER-ADD TO AND ALTER DORMITORY	36,100	SF	5,100
812-000	UPGRADE ELECTRICAL DISTRIBUTION SYSTEM		LS	6,900
813-231	PEACEKEEPER-ADD TO AND ALTER ELECTRIC SUBSTATION		LS	220
851-000	PEACEKEEPER-DEFENSE ACCESS ROAD	15,000	LF	1,750
860-000	PEACEKEEPER-ROAD, RAILROAD, AND UTILITIES		LS	13,200
		TOTAL:		97,460

9b. Future Projects: Typical Planned Next Three Years:

211-159	AIRCRAFT SUPPORT EQUIPMENT CORROSION CONTROL FACILITY	5,200	SF	1,050
610-128	ALTER PERSONNEL AND OPERATIONAL SUPPORT FACILITIES	133,000	SF	6,400
722-351	ALTER DINING HALL	15,050	SF	2,800

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION WURTSMITH AIR FORCE BASE, MICHIGAN	4. COMMAND STRATEGIC AIR COMMAND	5. AREA CONST COST INDEX 1.03

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of										
b. End FY 19										

7. INVENTORY DATA ($000)

a. Total Acreage:
b. Inventory Total As Of:
c. Authorization Not Yet In Inventory:
d. Authorization Requested In This Program:
e. Authorization Included In Following Program:
f. Planned In Next Three Program Years:
g. Remaining Deficiency:
h. Grand Total:

10. Mission or Major Functions: Active mission support activities include a heavy bombardment operational wing including a B-52 squadron and a KC-135 squadron which maintains a bomber and tanker alert force.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION COLUMBUS AIR FORCE BASE, MISSISSIPPI	4. COMMAND AIR TRAINING COMMAND	5. AREA CONST COST INDEX 0.82

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 89	463	945	388	283					5	2,084
b. End FY 1995	467	946	386	345					5	2,149

7. INVENTORY DATA ($000)

a. Total Acreage: (5,467)	
b. Inventory Total As Of: (30 SEP 89)	94,875
c. Authorization Not Yet In Inventory:	5,450
d. Authorization Requested In This Program:	400
e. Authorization Included In Following Program: (FY 92)	1,800
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	0
h. Grand Total:	102,525

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
171-212	ADD TO AND ALTER FLIGHT SIMULATOR	LS	400	MAY 89	MAR 90
		TOTAL:	400		

9a. Future Projects: Included in the Following Program (FY 92)

171-213	ALTER SPECIALIZED UPT SQUADRON OPERATIONS FACILITY	1 SF	600
211-179	FUEL SYSTEMS MAINTENANCE DOCK	8,600 SF	1,200
		TOTAL:	1,800

9b. Future Projects: Typical Planned Next Three Years:

10. Mission or Major Functions: A flying training wing which conducts classroom and flying training required to develop proficiency of undergraduate pilots in T-37 and T-38 aircraft.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION WHITEMAN AIR FORCE BASE, MISSOURI	4. COMMAND STRATEGIC AIR COMMAND	5. AREA CONST COST INDEX 1.11

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 89	452	2625	470							3,547
b. End FY 1995	497	3203	507							4,207

7. INVENTORY DATA ($000)

a. Total Acreage: (4,779)	
b. Inventory Total As Of: (30 SEP 89)	172,010
c. Authorization Not Yet In Inventory:	125,800
d. Authorization Requested In This Program:	96,400
e. Authorization Included In Following Program: (FY 92)	124,350
f. Planned In Next Three Program Years:	129,250
g. Remaining Deficiency:	0
h. Grand Total:	647,810

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE		COST ($000)	DESIGN STATUS START	CMPL
100-000	B-2 IMPACT AID		LS	1,000		
113-321	B-2 AIRCRAFT ACCESS APRON AND TAXIWAY UPGRADE		LS	7,900	AUG 89	DEC 90
121-122	B-2 HYDRANT FUEL/AIRCRAFT SUPPORT SYSTEMS		LS	12,000	AUG 89	DEC 90
211-173	B-2 AIRCRAFT MAINTENANCE DOCKS		LS	8,700	AUG 89	DEC 90
215-552	B-2 WEAPONS RECEIVING AND PROCESSING FACILITY	8,500	SF	1,700	AUG 89	DEC 90
217-712	B-2 AVIONICS SHOP	31,000	SF	5,000	AUG 89	DEC 90
218-852	B-2 SURVIVAL EQUIPMENT SHOP	4,500	SF	1,000	AUG 89	DEC 90
422-264	B-2 WEAPONS STORAGE IGLOOS		LS	5,600	AUG 89	DEC 90
442-257	B-2 HAZARDOUS MATERIAL STORAGE		LS	1,600	AUG 89	DEC 90
442-758	B-2 WEAPONS STORAGE AREA SUPPLY WAREHOUSE	4,000	SF	800	AUG 89	DEC 90
721-312	B-2 DORMITORY	250	PN	6,500	AUG 89	DEC 90
730-441	B-2-ADD TO AND ALTER BASE LIBRARY/EDUCATION CENTER	29,700	SF	3,500	JAN 89	DEC 89
740-253	B-2 ADD TO AND ALTER CHAPEL/ COMMUNITY ACTIVITY FACILITY	13,500	SF	1,700	JUN 89	JUN 90
740-674	B-2 ADD TO AND ALTER PHYSICAL FITNESS CENTER	37,500	SF	3,600	JAN 89	DEC 89
740-884	B-2 ADD TO AND ALTER CHILD DEVELOPMENT CENTER		LS	750	JAN 89	DEC 89
841-000	B-2 ADD TO AND ALTER UTILITIES		LS	9,400	AUG 89	DEC 90
851-147	B-2 DEFENSE ACCESS ROADS		LS	9,000		
851-147	B-2 UPGRADE BASE ROADS		LS	4,000	AUG 89	DEC 90
851-147	B-2 MUNITIONS CONVOY ROADS	25,500	SY	6,000	AUG 89	DEC 90
872-245	B-2 WEAPONS STORAGE AREA SECURITY FENCING	24,100	LF	5,900	AUG 89	DEC 90
880-211	FIRE PROTECTION SYSTEM		LS	750	DEC 88	JUL 90
		TOTAL:		96,400		

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION WHITEMAN AIR FORCE BASE, MISSOURI	4. COMMAND STRATEGIC AIR COMMAND	5. AREA CONST COST INDEX 1.11

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of										
b. End FY 19										

7. INVENTORY DATA ($000)

a. Total Acreage:
b. Inventory Total As Of:
c. Authorization Not Yet In Inventory:
d. Authorization Requested In This Program:
e. Authorization Included In Following Program:
f. Planned In Next Three Program Years:
g. Remaining Deficiency:
h. Grand Total:

9a. Future Projects: Included in the Following Program (FY 92)

113-321	B-2 ADD TO AND ALTER AIRCRAFT PARKING APRON AND TAXIWAYS		LS	7,500
121-122	B-2 HYDRANT FUELING SYSTEM AND UTILITY SUPPORT SYSTEM		LS	14,800
130-142	B-2 FIRE STATION	6,500	SF	2,700
131-111	B-2 ADD TO AND ALTER COMMUNICATIONS FACILITY	18,100	SF	2,500
211-157	B-2 ENGINE MAINTENANCE SHOP	26,000	SF	2,600
211-173	B-2 AIRCRAFT MAINTENANCE DOCKS	105,000	SF	33,000
216-642	B-2 CONVENTIONAL MUNITIONS SUPPORT FACILITY	9,500	SF	1,750
422-264	B-2 MUNITIONS STORAGE IGLOOS	2	EA	2,900
811-000	B-2 ADD TO AND ALTER UTILITY SYSTEMS		LS	7,500
851-000	B-2 DEFENSE ACCESS ROADS		LS	5,000
872-000	B-2 ALERT AREA AND PARKING RAMP SECURITY IMPROVEMENTS		LS	12,000
		TOTAL:		92,250

9b. Future Projects: Typical Planned Next Three Years:

100-000	B-2 IMPACT AID		LS	2,000
113-321	B-2 UPGRADE ALERT AIRCRAFT PARKING APRON		LS	8,600
113-321	B-2 AIRCRAFT APRON AND TAXIWAY		LS	9,700
141-181	B-2 ALERT AIRCRAFT SHELTERS	49,200	SF	11,200
141-453	BASE OPERATIONS	19,100	SF	3,250

10. Mission or Major Functions: Active mission support activities include a strategic missile wing consisting of three Minuteman missile squadrons which maintain a continuous alert posture; and a Military Airlift Command aerospace rescue and recovery squadron. Primary B-2 bomber base.

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)		2. DATE
3. INSTALLATION AND LOCATION WHITEMAN AIR FORCE BASE, MISSOURI		4. COMMAND STRATEGIC AIR COMMAND	5. AREA CONST COST INDEX 1.11

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of										
b. End FY 19										

7. INVENTORY DATA ($000)

a. Total Acreage:
b. Inventory Total As Of:
c. Authorization Not Yet In Inventory:
d. Authorization Requested In This Program:
e. Authorization Included In Following Program:
f. Planned In Next Three Program Years:
g. Remaining Deficiency:
h. Grand Total:

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION WHITEMAN AIR FORCE BASE, MISSOURI	4. PROJECT TITLE B-2 AIRCRAFT ACCESS APRON AND TAXIWAY UPGRADE

5. PROGRAM ELEMENT 1.11.27	6. CATEGORY CODE 113-321	7. PROJECT NUMBER YWHG919220	8. PROJECT COST($000) 7,900

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
B-2 AIRCRAFT ACCESS APRON AND TAXIWAY UPGRADE	LS			6,100
SUPPORTING FACILITIES				985
SITE IMPROVEMENTS	LS			(350)
UTILITIES	LS			(285)
DRAINAGE	LS			(350)
SUBTOTAL				7,085
CONTINGENCY (5%)				354
TOTAL CONTRACT COST				7,439
SUPERVISION, INSPECTION AND OVERHEAD (6%)				446
TOTAL REQUEST				7,885
TOTAL REQUEST (ROUNDED)				7,900

10. Description of Proposed Construction: Rigid pavement aprons and taxiway for heavy loading, flexible pavement taxiway shoulders and other necessary support.

11. REQUIREMENT: As required.

PROJECT: Construct aircraft access aprons and taxiways to provide access to maintenance docks programmed in a separate FY 91 MILCON project. (New Mission)

REQUIREMENT: Adequate pavement to support B-2 ground operations. A taxiway and access apron must be provided between the maintenance docks, corrosion control dock, fuel cell docks and the runway.

CURRENT SITUATION: No access apron or taxiway exists for access to new aircraft maintenance docks.

IMPACT IF NOT PROVIDED: There will be no aircraft access to the maintenance docks.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

DD FORM 1391, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION WHITEMAN AIR FORCE BASE, MISSOURI		
4. PROJECT TITLE B-2 AIRCRAFT ACCESS APRON AND TAXIWAY UPGRADE		5. PROJECT NUMBER YWHG919220

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 AUG 29
(b) Percent Complete as of Jan 90	35%
(c) Date 35% Designed	89 DEC 15
(d) Date Design Complete	90 DEC 15
(2) Basis:	
(a) Standard or Definitive Design -	YES
(b) Where Design Was Most Recently Used -	WHITEMAN
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	250
(b) All Other Design Costs	25
(c) Total	275
(d) Contract	
(e) In-house	275
(4) Construction Start	91 MAR

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION WHITEMAN AIR FORCE BASE, MISSOURI	4. PROJECT TITLE B-2 HYDRANT FUEL/AIRCRAFT SUPPORT SYSTEMS

5. PROGRAM ELEMENT 1.11.27	6. CATEGORY CODE 121-122	7. PROJECT NUMBER YWHG919229	8. PROJECT COST($000) 12,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
B-2 HYDRANT FUEL/AIRCRAFT SUPPORT SYSTEMS	LS			9,169
PUMPHOUSE/TANKS	LS			(643)
FUEL LINE DISTRIBUTION	LS			(5,411)
CASS FACILITIES	LS			(3,115)
SUPPORTING FACILITIES				1,590
SITE IMPROVEMENTS	LS			(705)
PAVEMENTS	LS			(395)
UTILITIES	LS			(275)
DRAINAGE	LS			(215)
SUBTOTAL				10,759
CONTINGENCY (5%)				538
TOTAL CONTRACT COST				11,297
SUPERVISION, INSPECTION AND OVERHEAD (6%)				678
TOTAL REQUEST				11,975
TOTAL REQUEST (ROUNDED)				12,000

10. Description of Proposed Construction: Provides consolidated aircraft support system (CASS) equipment rooms, CASS ducting and vaults, fuel hydrants and hydrant fuel distribution, fuel pumphouse, pantographs, storage tanks, access roads for vehicles and other necessary support.

11. REQUIREMENT: As required.

PROJECT: Construct hydrant fueling and consolidated aircraft support systems (CASS) in support of the B-2 bomber beddown. (New Mission)

REQUIREMENT: A 4800 GPM fuel hydrant system capable of providing 1200 GPM of fuel to four aircraft, or 600 GPM to eight aircraft simultaneously. Refueling outlets with pantographs must be provided within each aircraft maintenance dock. Berm protection for fuel tanks for spill protection. Requirement includes CASS to replace many day-to-day flightline support equipment needs. CASS must provide electrical power, shop air, conditioned air, and liquid coolant to each aircraft maintenance dock. Project provides CASS equipment rooms for two maintenance docks requested in FY 91. This project is the third phase of a multi-phased effort to provide complete hydrant fueling and CASS systems.

CURRENT SITUATION: The existing underground fuel system was abandoned in place twenty years ago. This system cannot be brought up to the standards required for B-2 operations. There is no existing CASS system at Whiteman AFB.

IMPACT IF NOT PROVIDED: Aircraft will have to be refueled from tanker trucks. This will be a very time consuming and manpower intensive operation and will not meet mission generation requirements. In addition, refueling trucks are not programmed for purchase in the numbers required for such operation. Support equipment will also have to be used in place of the proposed CASS. Sufficient quantities of support equipment have not

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION WHITEMAN AIR FORCE BASE, MISSOURI		
4. PROJECT TITLE B-2 HYDRANT FUEL/AIRCRAFT SUPPORT SYSTEMS	5. PROJECT NUMBER YWHG919229	

been procured for this type of operation. Mission accomplishment will be severely jeopardized due to lack of support for timely aircraft maintenance and generation. Beddown objectives will not be met. ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT
AIR FORCE

FY 1991 MILITARY CONSTRUCTION PROJECT DATA
(computer generated)

2. DATE

3. INSTALLATION AND LOCATION
WHITEMAN AIR FORCE BASE, MISSOURI

4. PROJECT TITLE
B-2 HYDRANT FUEL/AIRCRAFT SUPPORT SYSTEMS

5. PROJECT NUMBER
YWHG919229

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 AUG 29
(b) Percent Complete as of Jan 90	35%
(c) Date 35% Designed	89 DEC 15
(d) Date Design Complete	90 DEC 15
(2) Basis:	
(a) Standard or Definitive Design -	YES
(b) Where Design Was Most Recently Used -	WHITEMAN
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	1452
(b) All Other Design Costs	242
(c) Total	1694
(d) Contract	1694
(e) In-house	
(4) Construction Start	91 MAR

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION WHITEMAN AIR FORCE BASE, MISSOURI	4. PROJECT TITLE B-2 AIRCRAFT MAINTENANCE DOCKS

5. PROGRAM ELEMENT 1.11.27	6. CATEGORY CODE 211-173	7. PROJECT NUMBER YWHG919222	8. PROJECT COST($000) 8,700

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
B-2 AIRCRAFT MAINTENANCE DOCKS (2 SP)	LS			6,027
SUPPORTING FACILITIES				1,750
SITE IMPROVEMENTS	LS			(775)
COMMUNICATIONS SUPPORT	LS			(105)
UTILITIES	LS			(415)
FIRE PROTECTION SYSTEMS	LS			(455)
SUBTOTAL				7,777
CONTINGENCY (5%)				389
TOTAL CONTRACT COST				8,166
SUPERVISION, INSPECTION AND OVERHEAD (6%)				490
TOTAL REQUEST				8,656
TOTAL REQUEST (ROUNDED)				8,700

10. Description of Proposed Construction: Reinforced concrete foundation and floor, hangar doors and heated door tracks. Includes grounding points, hydraulic distribution system, oil/water separator and other necessary support. Air Conditioning: 10 Tons.

11. REQUIREMENT: 30 EA ADEQUATE: 10 EA SUBSTANDARD: 0

PROJECT: Construct two aircraft maintenance docks to support the B-2 beddown. (New Mission)

REQUIREMENT: Adequate covered aircraft dock spaces for all-weather heavy maintenance on B-2 structural, mechanical and electronic components. Construct the dock and access doors to withstand jet blast as aircraft taxi out. Rear doors must accommodate munitions loading trailers. Provide security detection and alarm. Dock construction will be phased to accommodate aircraft delivery and economies of scale.

CURRENT SITUATION: A total of ten heavy maintenance dock spaces have been authorized. These include a fuel cell hangar, a corrosion control facility, alterations to an existing facility for two spaces, and six new heavy maintenance docks. An additional four dock spaces have been requested in FY 90. No other facilities exist that can be modified to accommodate the aircraft covering requirement.

IMPACT IF NOT PROVIDED: The aircraft's low observable features require frequent structural and propulsion maintenance. Aircraft availability will be severely affected if covered maintenance spaces are not provided for each aircraft. Mission degradation will result. Beddown objectives cannot be met.

ADDITIONAL: Maintenance of low observable technology and operational factors require a covered dock space for each B-2 aircraft to insure a high deterrence value. Dock spaces will be requested for Whiteman AFB in

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION WHITEMAN AIR FORCE BASE, MISSOURI		
4. PROJECT TITLE B-2 AIRCRAFT MAINTENANCE DOCKS		5. PROJECT NUMBER YWHG919222

three basic categories. Heavy Maintenance Docks, typical of those provided for any type of aircraft, are required for disassembly and reassembly of major aircraft systems and components. Alert Docks are required to minimize aircraft generation times against an increasingly sophisticated threat. Common Maintenance Docks are required to insure preservation of low observable characteristics. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION WHITEMAN AIR FORCE BASE, MISSOURI		
4. PROJECT TITLE B-2 AIRCRAFT MAINTENANCE DOCKS		5. PROJECT NUMBER YWHG919222

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 AUG 29
(b) Percent Complete as of Jan 90	35%
(c) Date 35% Designed	89 DEC 15
(d) Date Design Complete	90 DEC 15
(2) Basis:	
(a) Standard or Definitive Design -	YES
(b) Where Design Was Most Recently Used -	WHITEMAN
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	1430
(b) All Other Design Costs	143
(c) Total	1573
(d) Contract	
(e) In-house	1573
(4) Construction Start	91 MAR

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION WHITEMAN AIR FORCE BASE, MISSOURI	4. PROJECT TITLE B-2 WEAPONS RECEIVING AND PROCESSING FACILITY

5. PROGRAM ELEMENT 1.11.27	6. CATEGORY CODE 215-552	7. PROJECT NUMBER YWHG909207	8. PROJECT COST($000) 1,700

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
B-2 WEAPONS RECEIVING AND PROCESSING FACILITY	SF	8,500	130	1,105
SUPPORTING FACILITIES				425
SITE IMPROVEMENTS	LS			(265)
UTILITIES	LS			(135)
PAVEMENTS	LS			(25)
SUBTOTAL				1,530
CONTINGENCY (5%)				77
TOTAL CONTRACT COST				1,607
SUPERVISION, INSPECTION AND OVERHEAD (6%)				96
TOTAL REQUEST				1,703
TOTAL REQUEST (ROUNDED)				1,700

10. Description of Proposed Construction: Concrete foundation and floor, steel frame building, high bay construction with overhead crane, access roads and parking area, communications support, utilities and other necessary support. Air Conditioning: 5 Tons.

11. REQUIREMENT: 8,500 SF ADEQUATE: 0 SUBSTANDARD: 0

PROJECT: Construct a weapons receiving and processing facility to support the B-2 beddown. (New Mission)

REQUIREMENT: An adequate semi-high bay facility in which to receive and process unarmed weapons and launcher equipment. This facility requires a drive through bay with a 5-ton overhead crane. A dispatch office, armory and ready room are also required to support assigned personnel.

CURRENT SITUATION: No facilities are available to support this function.

IMPACT IF NOT PROVIDED: Munitions handling personnel will not have a workplace. High value and large munition launchers will be uncrated and prepared for shipping outside. Security of the weapons system may be compromised. Sensitive equipment may be damaged due to a lack of adequate handling facilities.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION

WHITEMAN AIR FORCE BASE, MISSOURI

4. PROJECT TITLE B-2 WEAPONS RECEIVING AND PROCESSING FACILITY	5. PROJECT NUMBER YWHG909207

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 AUG 29
(b) Percent Complete as of Jan 90	35%
(c) Date 35% Designed	89 DEC 15
(d) Date Design Complete	90 DEC 15
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	96
(b) All Other Design Costs	16
(c) Total	112
(d) Contract	
(e) In-house	112
(4) Construction Start	91 MAR

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT

AIR FORCE

FY 1991 MILITARY CONSTRUCTION PROJECT DATA
(computer generated)

2. DATE

3. INSTALLATION AND LOCATION

WHITEMAN AIR FORCE BASE, MISSOURI

4. PROJECT TITLE

B-2 AVIONICS SHOP

5. PROGRAM ELEMENT

1.11.27

6. CATEGORY CODE

217-712

7. PROJECT NUMBER

YWHG909205

8. PROJECT COST($000)

5,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
B-2 AVIONICS SHOP	SF	31,000	115	3,565
SUPPORTING FACILITIES				940
SITE PREPARATION	LS			(240)
COMMUNICATIONS SUPPORT	LS			(275)
UTILITIES	LS			(275)
PAVEMENTS	LS			(150)
SUBTOTAL				4,505
CONTINGENCY (5%)				225
TOTAL CONTRACT COST				4,730
SUPERVISION, INSPECTION AND OVERHEAD (6%)				284
TOTAL REQUEST				5,014
TOTAL REQUEST (ROUNDED)				5,000

10. Description of Proposed Construction: Concrete foundation and floor slab, masonry walls, steel framework, fire protection, communications support, security system, paved parking and access road and other necessary support. Air Conditioning: 160 Tons.

11. REQUIREMENT: 31,000 SF ADEQUATE: 0 SUBSTANDARD: 0

PROJECT: Construct an avionics shop in support of the B-2 bomber beddown. (New Mission)

REQUIREMENT: An adequate facility with environmental controls for maintenance on B-2 bomber avionics systems and components. Systems/functions include communications, navigation, flight control and weapons control. Secure space must be provided for maintenance on classified systems.

CURRENT SITUATION: No avionics shop space currently exists on base.

IMPACT IF NOT PROVIDED: The base will not have a facility and capability to perform testing, inspection, and maintenance of essential avionics systems for the B-2 aircraft. Mission readiness cannot be maintained. Beddown objectives cannot be met.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facilities Planning and Design Guide". However, this project does meet the [illegible]a/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

DD FORM 1391, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION WHITEMAN AIR FORCE BASE, MISSOURI		
4. PROJECT TITLE B-2 AVIONICS SHOP		5. PROJECT NUMBER YWHG909205

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 AUG 29
(b) Percent Complete as of Jan 90	35%
(c) Date 35% Designed	89 DEC 15
(d) Date Design Complete	90 DEC 15
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	150
(b) All Other Design Costs	25
(c) Total	175
(d) Contract	
(e) In-house	175
(4) Construction Start	91 MAR

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION WHITEMAN AIR FORCE BASE, MISSOURI	4. PROJECT TITLE B-2 WEAPONS STORAGE IGLOOS

5. PROGRAM ELEMENT 1.11.27	6. CATEGORY CODE 422-264	7. PROJECT NUMBER XWHG919227	8. PROJECT COST($000) 5,600

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
B-2 WEAPONS STORAGE IGLOOS	LS			4,339
IGLOO	SF	22,300	135	(3,011)
IGLOO ACCESS PAVEMENT	LS			(1,328)
SUPPORTING FACILITIES				660
SITE IMPROVEMENTS	LS			(430)
UTILITIES	LS			(230)
SUBTOTAL				4,999
CONTINGENCY (5%)				250
TOTAL CONTRACT COST				5,249
SUPERVISION, INSPECTION AND OVERHEAD (6%)				315
TOTAL REQUEST				5,564
TOTAL REQUEST (ROUNDED)				5,600

10. Description of Proposed Construction: Reinforced concrete foundation, floor slab and arch. Provide earth cover, double steel doors at each end, detection/alarm systems, sensor support systems, emergency backup power support, communications support, access pavements for munitions trailers and other necessary support.

11. REQUIREMENT: 99,067 LS ADEQUATE: 43,475 LS SUBSTANDARD: 0

PROJECT: Construct four B-2 weapons storage igloos. (New Mission)

REQUIREMENT: Adequate secure weapons storage facilities. Each igloo must accommodate required munitions and must have two doors on each end to permit drive-thru by munitions support vehicles. Provide pavements for munitions trailers and tow vehicles. Include backup power support. This is the third phase of a multiphase igloo construction program.

CURRENT SITUATION: Existing facilities do not have the required width and height to accommodate the B-2 munitions and trailers. These facilities are fully utilized by the assigned missile wing. They cannot be modified to meet B-2 requirements.

IMPACT IF NOT PROVIDED: Storage for B-2 weapons will not be available. Mission implementation will not be possible without adequate storage for weapons associated with the B-2 mission.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION WHITEMAN AIR FORCE BASE, MISSOURI		
4. PROJECT TITLE B-2 WEAPONS STORAGE IGLOOS		5. PROJECT NUMBER YWHG919227

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 AUG 29
(b) Percent Complete as of Jan 90	35%
(c) Date 35% Designed	89 DEC 15
(d) Date Design Complete	90 DEC 15
(2) Basis:	
(a) Standard or Definitive Design -	YES
(b) Where Design Was Most Recently Used -	WHITEMAN
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	270
(b) All Other Design Costs	45
(c) Total	315
(d) Contract	
(e) In-house	315
(4) Construction Start	91 MAR

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION WHITEMAN AIR FORCE BASE, MISSOURI	4. PROJECT TITLE B-2 HAZARDOUS MATERIAL STORAGE

5. PROGRAM ELEMENT 1.11.27	6. CATEGORY CODE 442-257	7. PROJECT NUMBER YWHG919225	8. PROJECT COST($000) 1,600

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
B-2 HAZARDOUS MATERIAL STORAGE	LS			1,150
SUPPORTING FACILITIES				265
SITE IMPROVEMENTS	LS			(80)
PAVEMENTS	LS			(100)
UTILITIES	LS			(85)
SUBTOTAL				1,415
CONTINGENCY (5%)				71
TOTAL CONTRACT COST				1,486
SUPERVISION, INSPECTION AND OVERHEAD (6%)				89
TOTAL REQUEST				1,575
TOTAL REQUEST (ROUNDED)				1,600

10. Description of Proposed Construction: Reinforced concrete foundation and floor slab, steel structure, alarm and fire protection systems, pavements for outside storage, parking, access and other necessary support.

11. REQUIREMENT: 18,368 SF ADEQUATE: 768 SFSUBSTANDARD: 2,000 SF

PROJECT: Construct hazardous material storage facilities to support the missile wing and beddown of the B-2 bomber. (New Mission)

REQUIREMENT: Adequate facilities for processing and storing all hazardous materials required by the missile and bomber wings. Provide space for nitrogen generation and a quality check lab, fill stands, loading docks, and space for maintenance of hazardous material handling equipment. Facilities must meet all appropriate environmental, safety, and security criteria for storage of the hazardous materials. This is the first phase of a two phase effort to provide adequate facilities.

CURRENT SITUATION: The existing hazardous storage facility must be demolished to accommodate construction of other B-2 beddown facilities. No other facilities exist which can be modified to provide adequate hazardous storage.

IMPACT IF NOT PROVIDED: The base will not be able to store hazardous materials required by the missile and bomber wings. Missile and bomber mission capabilities will be degraded. Beddown objectives cannot be met.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION WHITEMAN AIR FORCE BASE, MISSOURI		
4. PROJECT TITLE B-2 HAZARDOUS MATERIAL STORAGE		5. PROJECT NUMBER YWHG919225

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 AUG 29
(b) Percent Complete as of Jan 90	35%
(c) Date 35% Designed	89 DEC 15
(d) Date Design Complete	90 DEC 15
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	336
(b) All Other Design Costs	
(c) Total	336
(d) Contract	336
(e) In-house	
(4) Construction Start	91 MAR

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION WHITEMAN AIR FORCE BASE, MISSOURI	4. PROJECT TITLE B-2 DORMITORY

5. PROGRAM ELEMENT 1.11.27	6. CATEGORY CODE 721-312	7. PROJECT NUMBER YWHG919230	8. PROJECT COST($000) 6,500

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
B-2 DORMITORY (250 PN)	SF	47,500	90	4,275
SUPPORTING FACILITIES				1,600
SITE IMPROVEMENTS	LS			(950)
COMMUNICATIONS SUPPORT	LS			(50)
UTILITIES	LS			(600)
SUBTOTAL				5,875
CONTINGENCY (5%)				294
TOTAL CONTRACT COST				6,169
SUPERVISION, INSPECTION AND OVERHEAD (6%)				370
TOTAL REQUEST				6,539
TOTAL REQUEST (ROUNDED)				6,500

10. Description of Proposed Construction: Concrete foundation, masonry reinforced concrete structure, fire protection, access road and parking lot, demolition and other necessary support.
Air Conditioning: 135 Tons. Grade Mix: 103 E1-E4; 147 E5-E6.

11. REQUIREMENT: 2,305 PN ADEQUATE: 1,500 PNSUBSTANDARD: 600 PN

PROJECT: Construct a dormitory to support the B-2 beddown. (New Mission)

REQUIREMENT: A major Air Force objective provides unaccompanied enlisted personnel with housing conducive to proper rest, relaxation and personal well being. Properly designed and furnished quarters, providing some degree of individual privacy are essential to successful accomplishment of the increasingly complicated and important jobs these people must perform. This is the third phase of a multi-phase program to provide the total requirement for dormitory space.

CURRENT SITUATION: Existing new dorms are at full occupancy supporting missile wing personnel. No other adequate facilities are available to accommodate personnel increases associated with the B-2 mission. Three substandard facilities will be demolished.

IMPACT IF NOT PROVIDED: Living quarters will be unavailable for incoming unaccompanied enlisted personnel. They will be forced to live off base where there is strong competition for the few available apartments.

ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION WHITEMAN AIR FORCE BASE, MISSOURI		
4. PROJECT TITLE B-2 DORMITORY		5. PROJECT NUMBER YWHG919230

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 AUG 29
(b) Percent Complete as of Jan 90	35%
(c) Date 35% Designed	89 DEC 15
(d) Date Design Complete	90 DEC 15
(2) Basis:	
(a) Standard or Definitive Design -	YES
(b) Where Design Was Most Recently Used -	WHITEMAN
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	325
(b) All Other Design Costs	33
(c) Total	358
(d) Contract	
(e) In-house	358
(4) Construction Start	91 MAR

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION WHITEMAN AIR FORCE BASE, MISSOURI	4. PROJECT TITLE B-2 ADD TO AND ALTER BASE LIBRARY/EDUCATION CENTER

5. PROGRAM ELEMENT 1.11.27	6. CATEGORY CODE 730-441	7. PROJECT NUMBER YWHG919238	8. PROJECT COST($000) 3,500

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
B-2 ADD TO AND ALTER BASE LIBRARY/EDUCATION CENTER	SF	29,500		2,686
ADDITION	SF	17,500	100	(1,750)
ALTERATION	SF	12,000	78	(936)
SUPPORTING FACILITIES				475
UTILITIES	LS			(145)
PAVEMENTS	LS			(145)
SITE IMPROVEMENTS	LS			(135)
ASBESTOS REMOVAL	LS			(50)
SUBTOTAL				3,161
CONTINGENCY (5%)				158
TOTAL CONTRACT COST				3,319
SUPERVISION, INSPECTION AND OVERHEAD (6%)				199
TOTAL REQUEST				3,518
TOTAL REQUEST (ROUNDED)				3,500

10. Description of Proposed Construction: Reinforced concrete foundation and floor slab, masonry walls with brick veneer, structural steel frame and roof system for addition. All structural, mechanical and electrical work necessary to alter existing facility. Includes book and magazine storage, audiovisual space, reading areas, children's room, landscaping and other necessary support. Air Conditioning: 66 Tons.

11. REQUIREMENT: 34,108 SF ADEQUATE: 4,608 SF SUBSTANDARD: 46,695 SF

PROJECT: Add to and alter the base Library/Education Center to support the B-2 beddown. (New Mission)

REQUIREMENT: Adequate space to provide a modern, efficient and functionally collocated library and education center to support military families assigned to the missile wing and those arriving for beddown of the B-2 bomber. The Library/Education Center must have sufficient space for film presentations, classroom activities, workshops, reading areas and adequate book storage to provide educational support and recreation for all authorized personnel.

CURRENT SITUATION: The base library is extremely overcrowded and many services are being provided in one room. Lack of separate study areas precludes use of the library by many potential users due to excessive noise and congestion. The library office is collocated with magazine storage and a workroom for incoming books, records and magazines. The children's area is in the middle of a room with a stereo system, microfilm equipment, a record browser, and a static display cases. Book storage is extremely limited and bookshelves are filled to capacity. To make room for new purchases, older books must be discarded. This unsatisfactory practice will continue until more room is provided. The existing Education Center facility is in the way of other B-2 beddown construction

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION WHITEMAN AIR FORCE BASE, MISSOURI		
4. PROJECT TITLE B-2 ADD TO AND ALTER BASE LIBRARY/EDUCATION CENTER		5. PROJECT NUMBER YWHG919238

and is scheduled for demolition. Educational activities have been relocated with a net loss of six fully used classrooms. Current enrollment in educational activities is 550 to 575 students per semester. Beddown of the B-2 is expected to increase enrollment 50% to 70%.
IMPACT IF NOT PROVIDED: Personnel arrivals resulting from beddown of the B-2 will greatly increase the demand on base library and education facilities. The shortage of classroom space and library services will undermine the educational services program and deprive current and future students of the opportunity to expand their knowledge and skills. The Air Force goal of maintaining highly educated and motivated personnel to meet the demands of a high technology force will be adversely affected.
ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION WHITEMAN AIR FORCE BASE, MISSOURI		
4. PROJECT TITLE B-2 ADD TO AND ALTER BASE LIBRARY/EDUCATION CENTER		5. PROJECT NUMBER YWHG919238

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 JAN 15
(b) Percent Complete as of Jan 90	100%
(c) Date 35% Designed	89 JUL 31
(d) Date Design Complete	89 DEC 15
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	210
(b) All Other Design Costs	35
(c) Total	245
(d) Contract	210
(e) In-house	35
(4) Construction Start	91 MAR

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION WHITEMAN AIR FORCE BASE MISSOURI	4. PROJECT TITLE B-2 ADD TO AND ALTER CHAPEL/ COMMUNITY ACTIVITY FACILITY

5. PROGRAM ELEMENT 1.11.27	6. CATEGORY CODE 740-253	7. PROJECT NUMBER YWHG939271	8. PROJECT COST($000) 1,700

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
B-2 ADD TO AND ALTER CHAPEL/COMMUNITY ACTIVITY FACILITY	SF	13,500		1,278
ADDITION	SF	8,500	105	(893)
ALTERATION	SF	5,000	77	(385)
SUPPORTING FACILITIES				235
UTILITIES	LS			(80)
PAVEMENTS	LS			(10)
SITE IMPROVEMENTS	LS			(100)
COMMUNICATIONS	LS			(45)
SUBTOTAL				1,513
CONTINGENCY (5%)				76
TOTAL CONTRACT COST				1,589
SUPERVISION, INSPECTION AND OVERHEAD (6%)				95
TOTAL REQUEST				1,684
TOTAL REQUEST (ROUNDED)				1,700

10. Description of Proposed Construction: Reinforced concrete foundation and floor slab, masonry walls with brick veneer, structural steel frame and roof system for addition. All structural, mechanical and electrical work necessary to alter existing facility. Includes classrooms, private counseling and administrative offices, reception area, fire protection, landscaping and other necessary support. Air Conditioning: 42 Tons.

11. REQUIREMENT: 13,500 SF ADEQUATE: 0 SUBSTANDARD: 5,000 SF

PROJECT: Add to and alter the Chapel/Community Activity Facility to support beddown of the B-2. (New Mission)

REQUIREMENT: A properly configured and sized facility is required to meet the religious education and family-centered guidance programs of the chapel ministry. This facility will provide a central location for information, referral, counseling, and coordination of family and individual concerns. The facility must also be available to other base agencies for professional seminars, meetings, briefings, and social activities. The facility will contain classrooms and private counseling offices to accommodate up to 300 personnel.

CURRENT SITUATION: The space allocated in the existing chapel center is too small to accommodate religious education and family guidance programs. As a result, some religious education activities must be conducted in the local elementary school. The existing chapel center has deteriorated from continual problems with roof leaks and many years of use. Use of divider curtains results in an unacceptable level of noise between adjacent classrooms. There is no central location for family/individual support services. The Red Cross and Family Services functions are in separate facilities and off-base referral and counseling agencies have no designated facility to use. Since there is no public transportation to

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION WHITEMAN AIR FORCE BASE MISSOURI		
4. PROJECT TITLE B-2 ADD TO AND ALTER CHAPEL/ COMMUNITY ACTIVITY FACILITY	5. PROJECT NUMBER YWHG939271	

surrounding communities, personnel without private vehicles will have difficulty accessing community service organizations.

IMPACT IF NOT PROVIDED: The arrival of 2400 military members and their families associated with the beddown of the B-2 bomber will greatly increase the demand for community and chapel support services. The ability to provide adequate family and individual services will be severely limited. Personnel without private vehicles must find alternate transportation methods to obtain community services which would should be provided on base.

ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION WHITEMAN AIR FORCE BASE MISSOURI		
4. PROJECT TITLE B-2 ADD TO AND ALTER CHAPEL/ COMMUNITY ACTIVITY FACILITY		5. PROJECT NUMBER YWHG939271

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 JUN 01
(b) Percent Complete as of Jan 90	35%
(c) Date 35% Designed	89 DEC 15
(d) Date Design Complete	90 JUN 15
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	99
(b) All Other Design Costs	17
(c) Total	116
(d) Contract	99
(e) In-house	17
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION WHITEMAN AIR FORCE BASE MISSOURI	4. PROJECT TITLE B-2 ADD TO AND ALTER PHYSICAL FITNESS CENTER

5. PROGRAM ELEMENT 1.11.27	6. CATEGORY CODE 740-674	7. PROJECT NUMBER YWHG929247	8. PROJECT COST($000) 3,600

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
B-2 ADD TO AND ALTER PHYSICAL FITNESS CENTER	SF	37,500		2,858
ADDITION	SF	25,800	99	(2,554)
ALTERATION	SF	11,700	26	(304)
SUPPORTING FACILITIES				395
UTILITIES	LS			(265)
PAVEMENTS	LS			(75)
SITE IMPROVEMENTS	LS			(55)
SUBTOTAL				3,253
CONTINGENCY (5%)				163
TOTAL CONTRACT COST				3,416
SUPERVISION, INSPECTION AND OVERHEAD (6%)				205
TOTAL REQUEST				3,621
TOTAL REQUEST (ROUNDED)				3,600

10. Description of Proposed Construction: ADDITION: Concrete footings, foundations, and slab flooring; structural frame, walls and roof system. ALTERATION: Partitions, finishes, insulation, electrical and mechanical work. Includes area for basketball, racquetball, handball, equipment issue/storage, shower/locker room, steam/sauna room, weight room, wellness clinic, landscaping and other necessary support.
Air Conditioning: 100 Tons.

11. REQUIREMENT: 54,000 SF ADEQUATE: 16,500 SF SUBSTANDARD: 11,700 SF

PROJECT: Construct an addition to and alter the existing physical fitness center to support beddown of the B-2 bomber. (New Mission)

REQUIREMENT: An adequate facility in which to conduct comprehensive and balanced programs for recreational sports, athletic training, and physical fitness. These programs are designed for all members of the military community and are particularly important in providing young airmen with wholesome sports and recreational activities that enhance their mental and physical well being.

CURRENT SITUATION: The existing gymnasium has less than sixty percent of the space necessary to support the current base military population of over 3,100. The B-2 beddown will increase the base military population by approximately 2,400. Due to the rural and relatively isolated location of Whiteman Air Force Base, base personnel must rely heavily on the existing facility as a source of entertainment and a place to maintain their physical fitness. The present facility lacks adequate female locker rooms and showers. Males and females must now schedule the use of the sauna and whirpool facilities to provide separate activities. Lack of space limits the number of people able to participate in basketball, volleyball, badminton, etc. Activities such as judo, karate, aerobics, etc. are held

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION WHITEMAN AIR FORCE BASE MISSOURI		
4. PROJECT TITLE B-2 ADD TO AND ALTER PHYSICAL FITNESS CENTER		5. PROJECT NUMBER YWHG929247

in the weight room thereby denying use for weight training. Extended operating hours have not alleviated these problems. Moreover, the existing facility is incapable of supporting personnel increases associated with beddown of the B-2.

IMPACT IF NOT PROVIDED: Physical fitness and recreation programs will continue to be hampered because of lack of space and dedicated female facilities. The existing facility will not be able to accommodate the base population increase associated with the beddown of the B-2 bomber. This will result in lower morale and wellness of assigned personnel and their dependents. It will also adversely impact the effectiveness of personnel in performing their daily jobs and is detrimental to mission readiness.

ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION WHITEMAN AIR FORCE BASE MISSOURI		
4. PROJECT TITLE B-2 ADD TO AND ALTER PHYSICAL FITNESS CENTER		5. PROJECT NUMBER YWHG929247

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 JAN 15
(b) Percent Complete as of Jan 90	100%
(c) Date 35% Designed	89 JUL 31
(d) Date Design Complete	89 DEC 15
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	204
(b) All Other Design Costs	34
(c) Total	238
(d) Contract	204
(e) In-house	34
(4) Construction Start	91 MAR

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION WHITEMAN AIR FORCE BASE, MISSOURI	4. PROJECT TITLE B-2 ADD TO AND ALTER UTILITIES

5. PROGRAM ELEMENT 1.11.27	6. CATEGORY CODE 841-000	7. PROJECT NUMBER YWHG919228	8. PROJECT COST($000) 9,400

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
B-2 ADD TO AND ALTER UTILITIES	LS			7,100
SUPPORTING FACILITIES				965
SITE IMPROVEMENTS	LS			(365)
PAVEMENTS	LS			(300)
COMMUNICATIONS SUPPORT	LS			(100)
DEMOLITION	LS			(200)
SUBTOTAL				8,065
CONTINGENCY (10%)				807
TOTAL CONTRACT COST				8,872
SUPERVISION, INSPECTION AND OVERHEAD (6%)				532
TOTAL REQUEST				9,404
TOTAL REQUEST (ROUNDED)				9,400

10. Description of Proposed Construction: Expand and upgrade existing electrical, water, sewer, steam distribution systems to support B-2 beddown facilities. Includes aircraft maintenance area fire protection distribution lines and other necessary support.

11. REQUIREMENT: As required.
PROJECT: Add to and alter utility systems to support the B-2 beddown. (New Mission)
REQUIREMENT: Expansion of the on-base utility infrastructure to support construction of approximately 100 new facilities and an increase of over 2400 military and civilian employees associated with the B-2 mission. Electrical power, steam distribution, sewer, water, and fire protection systems must be upgraded and expanded to support the new facilities as they are constructed. This is the fourth phase of a multi-phase effort to provide adequate utility systems.
CURRENT SITUATION: Existing base utility systems were built in the 1950s and are not capable of supporting the population increase and facilities associated with the B-2 mission.
IMPACT IF NOT PROVIDED: Assigned missions will suffer due to lack of adequate utilities. Existing utility systems will be severely overloaded. Extraordinary measures will be required to insure even substandard services are maintained. Health, welfare, and safety will be jeopardized. Water may require rationing to maintain fire protection reserves. Mission accomplishment will be compromised by failing utility systems and the poor morale of people forced to live and work in such substandard environments.
ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION WHITEMAN AIR FORCE BASE, MISSOURI		
4. PROJECT TITLE B-2 ADD TO AND ALTER UTILITIES		5. PROJECT NUMBER YWHG919228

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 AUG 29
(b) Percent Complete as of Jan 90	35%
(c) Date 35% Designed	89 DEC 15
(d) Date Design Complete	90 DEC 15
(2) Basis:	
(a) Standard or Definitive Design -	YES
(b) Where Design Was Most Recently Used -	WHITEMAN
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	300
(b) All Other Design Costs	50
(c) Total	350
(d) Contract	
(e) In-house	350
(4) Construction Start	91 MAR

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION WHITEMAN AIR FORCE BASE, MISSOURI	4. PROJECT TITLE B-2 MUNITIONS CONVOY ROADS

5. PROGRAM ELEMENT 1.11.27	6. CATEGORY CODE 851-147	7. PROJECT NUMBER YWHG919226	8. PROJECT COST($000) 6,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
B-2 MUNITIONS CONVOY ROADS	SY	25,500	105	2,678
SUPPORTING FACILITIES				2,745
SITE IMPROVEMENTS	LS			(2,745)
SUBTOTAL				5,423
CONTINGENCY (5%)				271
TOTAL CONTRACT COST				5,694
SUPERVISION, INSPECTION AND OVERHEAD (6%)				342
TOTAL REQUEST				6,036
TOTAL REQUEST (ROUNDED)				6,000

10. Description of Proposed Construction: Earthwork, subgrade preparation, concrete pavement with asphalt shoulders, drainage and all other necessary support.

11. REQUIREMENT: As required.

PROJECT: Construct convoy roads to support the B-2 bomber beddown. (New Mission)

REQUIREMENT: Roads to accommodate movement of munitions between the weapons storage area (WSA) and aircraft maintenance docks. Munitions must be transported through the rear of the docks. Convoy roads will be phased with construction of maintenance docks. This phase provides access to the twelve maintenance docks requested between FY 88 and FY 91.

CURRENT SITUATION: No munitions convoy roads are available to support the proposed mission. Existing roads are not adequately constructed to support heavy transport equipment. Also they cannot provide direct routing through uncongested areas of the base and do not permit adequate security during munitions movements.

IMPACT IF NOT PROVIDED: Munitions cannot be transported from the WSA to aircraft without jeopardizing the security of munitions or safety of the base population. Existing roads will rapidly deteriorate due to frequent use by heavy vehicles. Mission accomplishment may be delayed or totally prevented due to a lack of adequate routes for movement of munitions.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION WHITEMAN AIR FORCE BASE, MISSOURI		
4. PROJECT TITLE B-2 MUNITIONS CONVOY ROADS		5. PROJECT NUMBER YWHG919226

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 AUG 29
(b) Percent Complete as of Jan 90	35%
(c) Date 35% Designed	89 DEC 15
(d) Date Design Complete	90 DEC 15
(2) Basis:	
(a) Standard or Definitive Design -	YES
(b) Where Design Was Most Recently Used -	WHITEMAN
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	360
(b) All Other Design Costs	60
(c) Total	420
(d) Contract	
(e) In-house	420
(4) Construction Start	91 MAR

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION WHITEMAN AIR FORCE BASE, MISSOURI	4. PROJECT TITLE B-2 UPGRADE BASE ROADS

5. PROGRAM ELEMENT 1.11.27	6. CATEGORY CODE 851-147	7. PROJECT NUMBER YWHG919240	8. PROJECT COST($000) 4,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
B-2 UPGRADE BASE ROADS	LS			2,523
SUPPORTING FACILITIES				915
UTILITIES	LS			(465)
SITE PREPARATION	LS			(450)
SUBTOTAL				3,438
CONTINGENCY (10%)				344
TOTAL CONTRACT COST				3,782
SUPERVISION, INSPECTION AND OVERHEAD (6%)				227
TOTAL REQUEST				4,009
TOTAL REQUEST (ROUNDED)				4,000

10. Description of Proposed Construction: New subbase and concrete roadway, curbs, storm sewer, street and traffic lighting. Includes relocation of one facility, construction of an entry control point and other necessary support.

11. REQUIREMENT: As required.

PROJECT: Upgrade base roads to support the B-2 bomber beddown. (New Mission)

REQUIREMENT: Adequate roadways and traffic control to permit safe and efficient flow of the increased traffic flow through the base which accompany arrival of over 2400 personnel associated with the B-2 beddown.

CURRENT SITUATION: Existing roads were not designed or constructed to handle the volume of traffic that will be associated with dual missile and bomb wing operations at Whiteman AFB. Traffic currently enters the base from two access points and is constricted to two lanes (one inbound and one outbound). Roads through the base are already congested. Truck traffic on many base roads has been restricted because of the limited load capacity of the pavement.

IMPACT IF NOT PROVIDED: Serious safety problems as traffic congestion increases with the arrival of personnel and vehicles associated with the B-2 beddown. Existing roads will rapidly deteriorate.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION

WHITEMAN AIR FORCE BASE, MISSOURI

4. PROJECT TITLE	5. PROJECT NUMBER
B-2 UPGRADE BASE ROADS	YWHG919240

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 AUG 29
(b) Percent Complete as of Jan 90	35%
(c) Date 35% Designed	89 DEC 15
(d) Date Design Complete	90 DEC 15
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	210
(b) All Other Design Costs	35
(c) Total	245
(d) Contract	
(e) In-house	245
(4) Construction Start	91 MAR

b. Equipment associated with this project will be provided from other appropriations: N/A

1 COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2 DATE

3 INSTALLATION AND LOCATION WHITEMAN AIR FORCE BASE, MISSOURI	4 PROJECT TITLE B-2 DEFENSE ACCESS ROADS

5 PROGRAM ELEMENT 1.11.27	6 CATEGORY CODE 851-147	7 PROJECT NUMBER YWHG929250	8 PROJECT COST ($000) 9,000

9 COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
B-2 DEFENSE ACCESS ROADS				9,000

10 DESCRIPTION OF PROPOSED CONSTRUCTION

See page 587 for details of this project.

DD FORM 1 DEC 76 1391 PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED PAGE NO

U.S. G.P.O. 1984-420-[illegible]

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION WHITEMAN AIR FORCE BASE, MISSOURI	4. PROJECT TITLE B-2 WEAPONS STORAGE AREA SECURITY FENCING

5. PROGRAM ELEMENT 1.11.27	6. CATEGORY CODE 872-245	7. PROJECT NUMBER YWHG919224	8. PROJECT COST($000) 5,900

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
B-2 WEAPONS STORAGE AREA SECURITY FENCING	LF	24,100	180	4,338
SUPPORTING FACILITIES				970
SITE IMPROVEMENTS	LS			(350)
COMMUNICATIONS SUPPORT	LS			(320)
UTILITIES	LS			(300)
SUBTOTAL				5,308
CONTINGENCY (5%)				265
TOTAL CONTRACT COST				5,573
SUPERVISION, INSPECTION AND OVERHEAD (6%)				334
TOTAL REQUEST				5,907
TOTAL REQUEST (ROUNDED)				5,900

10. Description of Proposed Construction: Double steel chain link fence, barbed outriggers, support for security sensors, backup power, guard houses, roads, parking lot, area lighting and other necessary support.

11. REQUIREMENT: As required.

PROJECT: Install a perimeter security fence for the expanded weapons storage area (WSA). (New Mission)

REQUIREMENT: Provide security for munitions stored in the WSA.

CURRENT SITUATION: The existing WSA requires significant expansion to support new mission weapons storage requirements. No security fencing or other security provisions exist in the area of the expanded WSA.

IMPACT IF NOT PROVIDED: Access to the WSA will be difficult to control and will jeopardize the security of stored weapons and equipment. The WSA may not be certified for storage of weapons critical to accomplishment of the B-2 mission.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

DD FORM 1391, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION WHITEMAN AIR FORCE BASE, MISSOURI		
4. PROJECT TITLE B-2 WEAPONS STORAGE AREA SECURITY FENCING		5. PROJECT NUMBER YWHG919224

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 AUG 29
(b) Percent Complete as of Jan 90	35%
(c) Date 35% Designed	89 DEC 15
(d) Date Design Complete	90 DEC 15
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	312
(b) All Other Design Costs	52
(c) Total	364
(d) Contract	
(e) In-house	364
(4) Construction Start	91 MAR

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION OFFUTT AIR FORCE BASE, NEBRASKA	4. COMMAND STRATEGIC AIR COMMAND	5. AREA CONST COST INDEX 1.05

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 89	3264	9296	1925							14,485
b. End FY 1995	3190	9159	1964							14,313

7. INVENTORY DATA ($000)

a. Total Acreage: (4,006)	
b. Inventory Total As Of: (30 SEP 89)	334,332
c. Authorization Not Yet In Inventory:	82,493
d. Authorization Requested In This Program:	2,600
e. Authorization Included In Following Program: (FY 92)	14,150
f. Planned In Next Three Program Years:	35,900
g. Remaining Deficiency:	^
h. Grand Total:	469,475

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
740-674	ALTER PHYSICAL FITNESS CENTER AND FIELD HOUSE	LS	2,600	JAN 89	APR 90
		TOTAL:	2,600		

9a. Future Projects: Included in the Following Program (FY 92)

130-835	SECURITY POLICE OPERATIONS	20,000 SF	3,150
131-132	MILSTAR COMMUNICATIONS GROUND TERMINAL/LAND ACQUISITION	3,950 SF	3,100
442-758	AIRCRAFT PARTS STORE AND MOBILITY STORAGE	80,000 SF	5,400
610-284	ADD TO AND ALTER MAJOR COMMAND HEADQUARTERS	147,500 SF	2,500
		TOTAL:	14,150

9b. Future Projects: Typical Planned Next Three Years:

141-453	BASE OPERATIONS	25,600 SF	3,900
141-454	ADD/ALTER STRATEGIC TRAINING RANGE TECHNICAL OPERATIONS FAC	7,300 SF	1,600
141-456	OPERATIONS FACILITY TECNICAL MODERNIZATION	LS	650
219-946	BASE COVERED STORAGE FACILITY	28,800 SF	3,300
800-100	BASE UTILITY UPGRADE	LS	5,400

10. Mission or Major Functions: Active mission support activities include a major command headquarters responsible for management, command, control and direction of all assigned Strategic Air Command units; a strategic reconnaissance wing which provides intelligence for strategic contingency planning, and targeting and defense analysis; and a strategic command and control squadrons consisting of EC-135 and E-4 aircraft which intelligence wing with two airborne command and control squadrons consisting of EC-135 and E-4 aircraft which maintain an alert force.

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION OFFUTT AIR FORCE BASE, NEBRASKA	4. COMMAND STRATEGIC AIR COMMAND	5. AREA CONST COST INDEX 1.05

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of										
b. End FY 19										

7. INVENTORY DATA ($000)

a. Total Acreage:
b. Inventory Total As Of:
c. Authorization Not Yet In Inventory:
d. Authorization Requested In This Program:
e. Authorization Included In Following Program:
f. Planned In Next Three Program Years:
g. Remaining Deficiency:
h. Grand Total:

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION OFFUTT AIR FORCE BASE, NEBRASKA	4. PROJECT TITLE ALTER PHYSICAL FITNESS CENTER AND FIELD HOUSE

5. PROGRAM ELEMENT 1.18.96	6. CATEGORY CODE 740-674	7. PROJECT NUMBER SGBP900913	8. PROJECT COST($000) 2,600

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ALTER PHYSICAL FITNESS CENTER AND FIELD HOUSE	LS			2,174
SUPPORTING FACILITIES				60
UTILITIES	LS			(30)
ASBESTOS REMOVAL	LS			(30)
SUBTOTAL				2,234
CONTINGENCY (10%)				223
TOTAL CONTRACT COST				2,457
SUPERVISION, INSPECTION AND OVERHEAD (6%)				147
TOTAL REQUEST				2,604
TOTAL REQUEST (ROUNDED)				2,600

10. Description of Proposed Construction: All electrical, mechanical and structural work to alter existing facility to provide a physical fitness center and field house. Includes basketball, tennis and raquetball courts, running track, weight and exercise room, indoor swimming pool, bathhouse with showers and other necessary support.
Air Conditioning: 25 Tons.

11. REQUIREMENT: As required.
PROJECT: Alter facility to provide a physical fitness center and field house. (Current Mission)
REQUIREMENT: Adequate space to provide for daily physical training, conditioning, and recreation of personnel. A physical fitness center and field house is the center for a major portion of the military fitness program and must be adequate in size and contain sufficient facilities to provide a complete and diversified program during inclement weather when outdoor facilities are not available.
CURRENT SITUATION: There are currently two physical fitness centers located on the north side of the runway which divides the base. There are no such facilities on the south side of the base where the major aircraft maintenance, operational, enlisted and officer housing and base exchange and commissary facilities are located. An existing facility has been converted into a field house/physical fitness center to satisfy this requirement. However, the facility is not complete. It does not contain sufficient courts, running track and support areas to accommodate the number of personnel at Offutt AFB. A long standing requirement has existed for related fitness type facilities to be located more accessible to the large number of personnel working on the south side of the runway.
IMPACT IF NOT PROVIDED: Base personnel working and living on the south

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION OFFUTT AIR FORCE BASE, NEBRASKA		
4. PROJECT TITLE ALTER PHYSICAL FITNESS CENTER AND FIELD HOUSE		5. PROJECT NUMBER SGBP900913

side of the runway will not have adequate facilities in which to perform required physical fitness training and conditioning. They will be forced to continue to use the existing substandard facility or travel long distances to use the other facilities on the opposite side of the runway. This will have an adverse effect on morale which could have a detrimental impact on mission accomplishment and national security.

ADDITIONAL: An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, alteration and upgrade of an existing facility was found to be the most cost efficient over the life of the project. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION OFFUTT AIR FORCE BASE, NEBRASKA		
4. PROJECT TITLE ALTER PHYSICAL FITNESS CENTER AND FIELD HOUSE		5. PROJECT NUMBER SGBP900913

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 JAN 31
(b) Percent Complete as of Jan 90	60%
(c) Date 35% Designed	89 JUL 31
(d) Date Design Complete	90 APR 30
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	150
(b) All Other Design Costs	37
(c) Total	187
(d) Contract	131
(e) In-house	56
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION INDIAN SPRINGS AUXILIARY FIELD, NEVADA	4. COMMAND TACTICAL AIR COMMAND	5. AREA CONST COST INDEX 1.17

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 89										
b. End FY 1995										

7. INVENTORY DATA ($000)

a. Total Acreage: (2,300)	
b. Inventory Total As Of: (30 SEP 89)	14,922
c. Authorization Not Yet In Inventory:	6,100
d. Authorization Requested In This Program:	2,550
e. Authorization Included In Following Program: (FY 92)	0
f. Planned In Next Three Program Years:	3,300
g. Remaining Deficiency:	0
h. Grand Total:	26,872

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
216-642	MUNITIONS LOADING/REVETMENTS, PHASE II	LS	2,550	OCT 88	MAY 90
		TOTAL:	2,550		

9a. Future Projects: Included in the Following Program (FY 92) NONE

9b. Future Projects: Typical Planned Next Three Years:

211-111	MAINTENANCE HANGAR	11,900 SF	2,050
841-427	WATER STORAGE TANK	500,000 GA	1,250

10. Mission or Major Functions: This base serves as an auxiliary airfield for Nellis AFB, NV.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION INDIAN SPRINGS AUXILIARY AIRFIELD, NEVADA	4. PROJECT TITLE MUNITIONS LOADING/REVETMENTS, PHASE II

5. PROGRAM ELEMENT 2.75.96	6. CATEGORY CODE 216-642	7. PROJECT NUMBER LKTC903108	8. PROJECT COST($000) 2,550

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
MUNITIONS LOADING/REVETMENTS, PHASE II	LS			1,996
MAINTENANCE AND STORAGE	SF	12,100	105	(1,271)
REVETMENTS	LF	700	690	(483)
HOLDING PAD	SY	4,400	55	(242)
SUPPORTING FACILITIES				315
UTILITIES	LS			(105)
PAVEMENTS	LS			(105)
SITE IMPROVEMENTS	LS			(105)
SUBTOTAL				2,311
CONTINGENCY (5%)				116
TOTAL CONTRACT COST				2,427
SUPERVISION, INSPECTION AND OVERHEAD (6%)				146
TOTAL REQUEST				2,573
TOTAL REQUEST (ROUNDED)				2,550

10. Description of Proposed Construction: Concrete revetments, steel igloo storage, maintenance shop consisting of reinforced concrete foundation, floor slab, walls, roof system and other necessary support. Air Conditioning: 8 Tons.

11. REQUIREMENT: As required.
PROJECT: Construct munitions loading/revetments facilities. (Current Mission)
REQUIREMENT: Adequate munitions storage, loading and maintenance facilities for tactical aircraft fully deployed to Indian Springs in support of tactical training conducted from Nellis AFB. Facilities must support all missiles and bombs used in range training exercises.
CURRENT SITUATION: Indian Springs serves as an emergency recovery airfield and supports limited aircraft deployments in conjunction with RED FLAG, CONSTANT PEG and other exercises. This project provides the capability to support aircraft in a fully deployed status. Currently there are no facilities for munitions storage at Indian Springs. Munitions must be transported over public roads from Nellis AFB on a daily basis and stored in a fenced open area. This project will allow munitions to be prepositioned at Indian Springs prior to each exercise deployment.
IMPACT IF NOT PROVIDED: Failure to improve the operational support capabilities severely limits the mission Indian Springs Auxiliary Air Field. Munitions must be transported more frequently to meet mission support requirements.
ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

DD FORM 1391, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION

INDIAN SPRINGS AUXILIARY AIRFIELD, NEVADA

4. PROJECT TITLE MUNITIONS LOADING/REVETMENTS, PHASE II	5. PROJECT NUMBER LKTC903108

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 OCT 01
(b) Percent Complete as of Jan 90	90%
(c) Date 35% Designed	89 JAN 10
(d) Date Design Complete	90 MAY 15
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	153
(b) All Other Design Costs	
(c) Total	153
(d) Contract	153
(e) In-house	
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION NELLIS AIR FORCE BASE, NEVADA	4. COMMAND TACTICAL AIR COMMAND	5. AREA CONST COST INDEX 1.09

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 89	939	7771	1130	100					8	9,948
b. End FY 1995	942	7679	1136	100					8	9,865

7. INVENTORY DATA ($000)

a. Total Acreage: (3,025,977)	
b. Inventory Total As Of: (30 SEP 89)	268,826
c. Authorization Not Yet In Inventory:	49,400
d. Authorization Requested In This Program:	12,520
e. Authorization Included In Following Program: (FY 92)	6,300
f. Planned In Next Three Program Years:	7,700
g. Remaining Deficiency:	0
h. Grand Total:	344,746

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
141-454	PARARESCUE FACILITY	8,200 SF	1,050	MAY 89	MAR 90
141-753	SQUADRON OPERATIONS FACILITY	5,800 SF	1,000	MAY 89	MAR 90
211-111	MAINTENANCE HANGAR	30,000 SF	5,000	MAY 89	JUN 90
813-228	ADD TO AND ALTER ELECTRICAL DISTRIBUTION SYSTEM	LS	5,200	DEC 88	MAR 90
872-247	BASE SECURITY FENCING	LS	270	FEB 89	DEC 89
		TOTAL:	12,520		

9a. Future Projects: Included in the Following Program (FY 92)

610-127	CIVIL ENGINEERING COMPLEX-PHASE II	45,200 SF	4,400
740-884	CHILD DEVELOPMENT CENTER	18,625 SF	1,900
		TOTAL:	6,300

9b. Future Projects: Typical Planned Next Three Years:

112-211	AIRCRAFT LOADING APRON PH 4	LS	4,850
411-135	JET FUEL STORAGE FACILITY	BL	500
730-142	AIRFIELD FIRE RESCUE STATION	6,500 SF	1,200
872-247	BASE SECURITY FENCING	LS	1,150

10. Mission or Major Functions: This base hosts the USAF Tactical Fighter Weapons wing; a tactical fighter wing of F-16 aircraft; and a fighter weapons wing of F-16, F-15 and A-10 aircraft. It also hosts a TAC fighter training group (RED FLAG).

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION NELLIS AIR FORCE BASE, NEVADA	4. PROJECT TITLE PARARESCUE FACILITY

5. PROGRAM ELEMENT 4.18.96	6. CATEGORY CODE 141-454	7. PROJECT NUMBER RKMF913005	8. PROJECT COST($000) 1,050

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PARARESCUE FACILITY	SF	8,200	100	820
SUPPORTING FACILITIES				130
UTILITIES	LS			(75)
PAVEMENTS	LS			(25)
SITE IMPROVEMENTS	LS			(30)
SUBTOTAL				950
CONTINGENCY (5%)				48
TOTAL CONTRACT COST				998
SUPERVISION, INSPECTION AND OVERHEAD (6%)				60
TOTAL REQUEST				1,058
TOTAL REQUEST (ROUNDED)				1,050

10. Description of Proposed Construction: Concrete spread footings and pedestals, reinforced concrete slab, reinforced concrete frame, masonry walls, partitions, and roof. Will include operations, administrative, and storage space and other necessary support.
Air Conditioning: 10 Tons.

11. REQUIREMENT: 8,200 SF ADEQUATE: 0 SUBSTANDARD: 0

PROJECT: Construct an 8,200 SF pararescue facility. (New Mission)

REQUIREMENT: An adequate facility to house, train and control 19 pararescue personnel. Space is required to control, plan, train, and store equipment for a pararescue detachment. The detachment commander and his administrative assistant will require space to program and conduct mission briefings, and other related command activities. Space is required to store, maintain, repair, and issue specialized equipment. Secure storage is needed to protect medical equipment and supplies. Specialized equipment will require environmental controls in some parts of the facility. The briefing rooms, planning/operations planning rooms, training rooms, and life support are required for operational, training, and alert missions 24 hours a day.

CURRENT SITUATION: There is no existing suitable facility at Nellis AFB availible for this new unit. The new mission is programmed to become operational in FY 91.

IMPACT IF NOT PROVIDED: The new mission will not have suitable facilities in which to operate. Severe limitations, if not total impossibility, will be placed on mission accomplishment.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

DD FORM 1391, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION NELLIS AIR FORCE BASE, NEVADA		
4. PROJECT TITLE PARARESCUE FACILITY		5. PROJECT NUMBER RKMF913005

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 MAY 09
(b) Percent Complete as of Jan 90	75%
(c) Date 35% Designed	89 AUG 13
(d) Date Design Complete	90 MAR 24
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	36
(b) All Other Design Costs	18
(c) Total	54
(d) Contract	40
(e) In-house	14
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION NELLIS AIR FORCE BASE, NEVADA	4. PROJECT TITLE MAINTENANCE HANGAR

5. PROGRAM ELEMENT 4.18.96	6. CATEGORY CODE 211-111	7. PROJECT NUMBER RKMF913003	8. PROJECT COST($000) 5,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
MAINTENANCE HANGAR	SF	30,000		3,093
HANGAR	SF	19,300	98	(1,891)
ORGANIZATIONAL MAINTENANCE SHOP	SF	5,700	115	(656)
AVIONICS SHOP	SF	4,000	120	(480)
STORAGE	SF	1,000	66	(66)
SUPPORTING FACILITIES				1,390
UTILITIES	LS			(185)
PAVEMENTS	LS			(700)
SITE IMPROVEMENTS	LS			(200)
FIRE PROTECTION SYSTEM	LS			(305)
SUBTOTAL				4,483
CONTINGENCY (5%)				224
TOTAL CONTRACT COST				4,707
SUPERVISION, INSPECTION AND OVERHEAD (6%)				282
TOTAL REQUEST				4,989
TOTAL REQUEST (ROUNDED)				5,000

10. Description of Proposed Construction: Reinforced concrete footings, foundation and floor slab, structural steel frame, insulated walls and roof, fire protection, utilities and necessary support.
Air Conditioning: 20 Tons.

11. REQUIREMENT: 30,000 SF ADEQUATE: 0 SUBSTANDARD: 0
PROJECT: Construct an aircraft maintenance hangar. (New Mission)
REQUIREMENT: An adequate facility, properly sized and configured, for aircraft maintenance, individually unique aircraft test and evaluation of aircraft systems, weapons systems and high-priority test programs. This facility provides indoor aircraft jacking, flight control replacement, rigging and other required heavy maintenance. Space is required for alert aircraft parking. The aircraft must be hangared during high wind conditions. Due to unique avionics and other aircraft systems, maintenance and avionics shop space must be provided. Mobility taskings will necessitate the storage of readiness kits close to the aircraft and maintenance people.
CURRENT SITUATION: There are no existing facilities at Nellis that are available for the hangaring or maintenance of the new mission aircraft.
IMPACT IF NOT PROVIDED: The new mission will not be able to function at Nellis AFB. Off-base maintenance and/or repair is not feasible due to alert requirements.
ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION NELLIS AIR FORCE BASE, NEVADA		
4. PROJECT TITLE MAINTENANCE HANGAR		5. PROJECT NUMBER RKMF913003

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 MAY 09
(b) Percent Complete as of Jan 90	75%
(c) Date 35% Designed	89 SEP 15
(d) Date Design Complete	90 JUN 15
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	140
(b) All Other Design Costs	80
(c) Total	220
(d) Contract	160
(e) In-house	60
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION NELLIS AIR FORCE BASE, NEVADA	4. PROJECT TITLE ADD TO AND ALTER ELECTRICAL DISTRIBUTION SYSTEM

5. PROGRAM ELEMENT 2.75.96	6. CATEGORY CODE 813-228	7. PROJECT NUMBER RKMF893008	8. PROJECT COST($000) 5,200

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ADD TO AND ALTER ELECTRICAL DISTRIBUTION SYSTEM	LS			4,307
SUPPORTING FACILITIES				385
COMMUNICATIONS SUPPORT	LS			(245)
PAVEMENTS	LS			(40)
SITE IMPROVEMENTS	LS			(100)
SUBTOTAL				4,692
CONTINGENCY (5%)				235
TOTAL CONTRACT COST				4,927
SUPERVISION, INSPECTION AND OVERHEAD (6%)				296
TOTAL REQUEST				5,223
TOTAL REQUEST (ROUNDED)				5,200

10. Description of Proposed Construction: Provide transformers, switching and protection components, controls, fiber optics communications, primary distribution lines and other necessary support.

11. REQUIREMENT: As required.

PROJECT: Add to and alter the electrical distribution system. (Current Mission)

REQUIREMENT: A reliable and efficient electrical distribution to meet present and future electrical power requirements. Adequate power to accommodate increased demands from normal growth and beddown of additional tenant organizations.

CURRENT SITUATION: The base receives electrical power from one supply point which is vulnerable to a total and sustained disruption. The switching station is installed in a known flood plain and is highly susceptible to flooding and environmental hazards. The electrical distribution system operates at full capacity and cannot carry additional power required by planned mission increases. The primary operating voltage is low and inefficient by current standards for large installations. By upgrading the distribution system and operating at a higher primary voltage, the base power bill can be reduced by over $370,000 annually for current operations.

IMPACT IF NOT PROVIDED: An inadequate and unreliable electrical distribution system will continue to impair the current mission. Planned mission increases cannot be supported. Critical base facilities will continue to experience power outages. Significant power cost savings cannot be realized.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION

NELLIS AIR FORCE BASE, NEVADA

4. PROJECT TITLE ADD TO AND ALTER ELECTRICAL DISTRIBUTION SYSTEM	5. PROJECT NUMBER RKMF893008

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:

(a) Date Design Started	88 DEC 15
(b) Percent Complete as of Jan 90	90%
(c) Date 35% Designed	89 JUN 15
(d) Date Design Complete	90 MAR 15

(2) Basis:

(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A

(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	312
(b) All Other Design Costs	6
(c) Total	318
(d) Contract	318
(e) In-house	

(4) Construction Start — 90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION MCGUIRE AIR FORCE BASE, NEW JERSEY	4. COMMAND MILITARY AIRLIFT COMMAND	5. AREA CONST COST INDEX 1.10

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 89	588	4029	1459		79		71	246	71	6,543
b. End FY 1995	581	4077	1433		79		71	246	71	6,558

7. INVENTORY DATA ($000)

a. Total Acreage: (3,600)	
b. Inventory Total As Of: (30 SEP 89)	198,950
c. Authorization Not Yet In Inventory:	21,340
d. Authorization Requested In This Program:	7,850
e. Authorization Included In Following Program: (FY 92)	0
f. Planned In Next Three Program Years:	21,400
g. Remaining Deficiency:	0
h. Grand Total:	249,540

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
171-212	ADD TO FLIGHT SIMULATOR FACILITY	14,000 SF	3,000	MAY 89	JUN 90
721-312	ALTER DORMITORIES	280 PN	4,850	FEB 86	AUG 88
		TOTAL:	7,850		

9a. Future Projects: Included in the Following Program (FY 92) NONE

9b. Future Projects: Typical Planned Next Three Years:

141-461	ADD TO AND ALTER 21AF OPERATIONS CENTER	11,500 SF	1,200
141-782	AIR FREIGHT TERMINAL	101,350 SF	7,400
219-944	BASE ENGINEER COMPLEX	70,000 SF	6,800
721-312	ALTER DORMITORY	224 PN	5,300
872-247	SECURITY FENCE	14,400 LF	700

10. Mission or Major Functions: A numbered Air Force headquarters, support of two military airlift wings, (one active and one reserve associate), an Air National Guard tactical fighter wing and an Air National Guard heavy refueling group and an NCO Academy

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	6,000
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION MCGUIRE AIR FORCE BASE, NEW JERSEY	4. PROJECT TITLE ADD TO FLIGHT SIMULATOR FACILITY

5. PROGRAM ELEMENT 4.18.97	6. CATEGORY CODE 171-212	7. PROJECT NUMBER PTFL913020	8. PROJECT COST($000) 3,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ADD TO FLIGHT SIMULATOR FACILITY	SF	14,000	160	2,240
SUPPORTING FACILITIES				465
PAVEMENTS	LS			(125)
SITE IMPROVEMENTS	LS			(150)
UTILITIES	LS			(190)
SUBTOTAL				2,705
CONTINGENCY (5%)				135
TOTAL CONTRACT COST				2,840
SUPERVISION, INSPECTION AND OVERHEAD (6%)				170
TOTAL REQUEST				3,010
TOTAL REQUEST (ROUNDED)				3,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(18,500)

10. Description of Proposed Construction: High bay area, concrete foundation, floor slab and masonry walls and other necessary suport. Air Conditioning: 70 Tons.

11. REQUIREMENT: 32,525 SF ADEQUATE: 18,525 SF SUBSTANDARD: 0

PROJECT: Add two bays to C-141 flight simulator training facility. (New Mission)

REQUIREMENT: A facility to house two modern state-of-the-art C-141 flight training simulators. This new equipment replaces existing simulators and will enhance initial training qualification, proficiency maintenance, and effective mission procedures training.

CURRENT SITUATION: The existing facility is not large enough to house Phase II C-141 training devices. There are no other facilities on base that can be upgraded to meet this requirement.

IMPACT IF NOT PROVIDED: The training of C-141 aircrews cannot be accomplished without providing an adequate flight simulator for the aircrews.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

DD FORM 1391, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION MCGUIRE AIR FORCE BASE, NEW JERSEY		
4. PROJECT TITLE ADD TO FLIGHT SIMULATOR FACILITY		5. PROJECT NUMBER PTFL913020

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 MAY 01
(b) Percent Complete as of Jan 90	35%
(c) Date 35% Designed	89 SEP 15
(d) Date Design Complete	90 JUN 15
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	211
(b) All Other Design Costs	28
(c) Total	239
(d) Contract	199
(e) In-house	40
(4) Construction Start	91 APR

b. Equipment associated with this project will be provided from other appropriations:

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
TRAINING EQUIPMENT	3600	1991	18500

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION MCGUIRE AIR FORCE BASE, NEW JERSEY	4. PROJECT TITLE ALTER DORMITORIES

5. PROGRAM ELEMENT 4.18.96	6. CATEGORY CODE 721-312	7. PROJECT NUMBER PTFL913004	8. PROJECT COST($000) 4,850

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ALTER DORMITORIES (280 PN)	SF	55,000	61	3,355
SUPPORTING FACILITIES				800
UTILITIES	LS			(385)
PAVEMENTS	LS			(225)
SITE IMPROVEMENTS	LS			(190)
SUBTOTAL				4,155
CONTINGENCY (10%)				416
TOTAL CONTRACT COST				4,571
SUPERVISION, INSPECTION AND OVERHEAD (6%)				274
TOTAL REQUEST				4,845
TOTAL REQUEST (ROUNDED)				4,850

10. Description of Proposed Construction: All electrical, mechanical, and structural work necessary to alter existing dorms to acceptable standards of livability. Includes semi-private baths and improved personal safety, energy conservation features and other necessary support. Air Conditioning: 80 Tons. Grade Mix: 280 E1-E4.

11. REQUIREMENT: 1,947 PN ADEQUATE: 1,176 PN SUBSTANDARD: 771 PN

PROJECT: Alter two dormitories. (Current Mission)

REQUIREMENT: A major Air Force objective provides unaccompanied enlisted personnel with housing conducive to their proper rest, relaxation and personal well-being. Properly designed and furnished quarters providing some degree of individual privacy are essential to the successful accomplishment of the increasingly complicated and important jobs these people must perform.

CURRENT SITUATION: The majority of assigned unaccompanied enlisted personnel live in dormitories which do not meet current Air Force standards. Those personnel who are forced to live in off-base quarters pay more than they can reasonably afford. Existing dormitories have central latrines, inadequate control of heating and air conditioning, insufficient noise attenuation and a lack of amenities to adequately house enlisted personnel. This project will upgrade two existing buildings.

IMPACT IF NOT PROVIDED: Substandard living conditions on base and expensive off-base housing will continue to degrade the morale, productivity and career satisfaction of the enlisted force.

ADDITIONAL: An economic analysis has been prepared comparing the alternatives of new construction, revitalization, paying housing and subsistence allowances, and status quo. Based on the net present values and benefits of the respective alternatives, revitalization was found to

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION MCGUIRE AIR FORCE BASE, NEW JERSEY		
4. PROJECT TITLE ALTER DORMITORIES		5. PROJECT NUMBER PTFL913004

be the most cost efficient over the life of the project. This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION MCGUIRE AIR FORCE BASE, NEW JERSEY		
4. PROJECT TITLE ALTER DORMITORIES		5. PROJECT NUMBER PTFL913004

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	86 FEB 20
(b) Percent Complete as of Jan 90	100%
(c) Date 35% Designed	86 AUG 15
(d) Date Design Complete	88 AUG 01
(2) Basis:	
(a) Standard or Definitive Design -	YES
(b) Where Design Was Most Recently Used -	MCGUIRE
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	60
(b) All Other Design Costs	15
(c) Total	75
(d) Contract	
(e) In-house	75
(4) Construction Start	91 MAR

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION HOLLOMAN AIR FORCE BASE, NEW MEXICO	4. COMMAND TACTICAL AIR COMMAND	5. AREA CONST COST INDEX 1.08

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 89	706	4622	1029	212	3		8	33	108	6,721
b. End FY 1995	699	4616	1036	212	3		8	33	108	6,715

7. INVENTORY DATA ($000)

a. Total Acreage: (58,498)	
b. Inventory Total As Of: (30 SEP 89)	220,042
c. Authorization Not Yet In Inventory:	42,310
d. Authorization Requested In This Program:	3,010
e. Authorization Included In Following Program: (FY 92)	11,750
f. Planned In Next Three Program Years:	18,100
g. Remaining Deficiency:	0
h. Grand Total:	295,212

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	CMPL
721-312	ALTER DORMITORY	152 PN	2,700	NOV 88	APR 90
872-247	SECURITY IMPROVEMENTS	LS	310	NOV 88	MAY 90
		TOTAL:	3,010		

9a. Future Projects: Included in the Following Program (FY 92)

113-321	AIRCRAFT PARKING APRON	23,200 SY	3,300
113-321	AIRCRAFT PARKING APRON	23,200 SF	3,300
141-454	PARARESCUE OPERATIONS FACILITY	10,000 SF	1,300
141-753	SQUADRON OPERATIONS FACILITY	6,400 SF	1,150
721-312	ALTER DORMITORIES	152 PN	2,700
		TOTAL:	11,750

9b. Future Projects: Typical Planned Next Three Years:

130-142	FIRE STATION	5,700 SF	1,000
211-193	SOUND SUPPRESSOR SUPPORT	LS	960
211-193	SOUND SUPPRESSOR	1 EA	820
721-312	ALTER UNACCOMPANIED ENLISTED HSG	152 PN	2,800
740-884	CHILD DEVELOPMENT CENTER	18,675 SF	1,900

10. Mission or Major Functions: The base hosts an air division, a tactical fighter wing of F-15 aircraft, a tactical training wing of T-38 aircraft, a MAC rescue and recovery squadron and an ANG fighter interceptor detachment.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION HOLLOMAN AIR FORCE BASE, NEW MEXICO	4. PROJECT TITLE ALTER DORMITORY

5. PROGRAM ELEMENT 2.75.96	6. CATEGORY CODE 721-312	7. PROJECT NUMBER KWRD903101	8. PROJECT COST($000) 2,700

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ALTER DORMITORY (152 PN)	SF	29,200	63	1,840
SUPPORTING FACILITIES				495
COMMUNICATIONS SUPPORT	LS			(95)
UTILITIES	LS			(220)
PAVEMENTS	LS			(95)
SITE IMPROVEMENTS	LS			(85)
SUBTOTAL				2,335
CONTINGENCY (10%)				234
TOTAL CONTRACT COST				2,569
SUPERVISION, INSPECTION AND OVERHEAD (6%)				154
TOTAL REQUEST				2,723
TOTAL REQUEST (ROUNDED)				2,700

10. Description of Proposed Construction: Alter structural, mechanical and electrical systems. Upgrade exterior entrances, safety and energy conservation features, asbestos removal and other necessary support. Air Conditioning: 50 Tons. Grade Mix: 152 E1-E4.

11. REQUIREMENT: 2,007 PN ADEQUATE: 852 PN SUBSTANDARD: 858 PN

PROJECT: Alter one dormitory. (Current Mission)

REQUIREMENT: A major Air Force objective provides unaccompanied enlisted personnel with housing conducive to their proper rest, relaxation and personal well-being. Properly designed and furnished quarters providing some degree of individual privacy are essential to the successful accomplishment of the increasingly complicated and important jobs these people must perform.

CURRENT SITUATION: The dormitory spaces are inadequate by current living standards. Inadequate lighting, poor insulation and sound attenuation, obsolete electrical and mechanical systems, and lack of privacy are major deficiencies of these facilities.

IMPACT IF NOT PROVIDED: Substandard living conditions on base will continue to degrade the morale, productivity and career satisfaction of the enlisted force.

ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION HOLLOMAN AIR FORCE BASE, NEW MEXICO		
4. PROJECT TITLE ALTER DORMITORY		5. PROJECT NUMBER KWRD903101

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 NOV 15
(b) Percent Complete as of Jan 90	50%
(c) Date 35% Designed	89 AUG 04
(d) Date Design Complete	90 APR 10
(2) Basis:	
(a) Standard or Definitive Design -	YES
(b) Where Design Was Most Recently Used -	HOLLOMAN
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	162
(b) All Other Design Costs	
(c) Total	162
(d) Contract	
(e) In-house	162
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION KIRTLAND AIR FORCE BASE, NEW MEXICO	4. COMMAND MILITARY AIRLIFT COMMAND	5. AREA CONST COST INDEX 1.00

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 89	1350	3185	2813	38	121	40	236	323	675	9,781
b. End FY 1995	1321	3097	2877	38	121	40	236	323	675	9,728

7. INVENTORY DATA ($000)

a. Total Acreage: (43,881)	
b. Inventory Total As Of: (30 SEP 89)	286,726
c. Authorization Not Yet In Inventory:	74,500
d. Authorization Requested In This Program:	4,200
e. Authorization Included In Following Program: (FY 92)	12,450
f. Planned In Next Three Program Years:	5,340
g. Remaining Deficiency:	0
h. Grand Total:	383,216

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
116-663	ADD TO AND ALTER HELICOPTER TRAINING AREA	LS	2,650	MAR 88	JUL 89
721-312	ALTER DORMITORIES	128 PN	1,550	MAR 87	DEC 89
		TOTAL:	4,200		

9a. Future Projects: Included in the Following Program (FY 92)

141-232	SOF-AERIAL DELIVERY FACILITY	13,000 SF	1,600
211-159	SOF AIRCRAFT CORROSION CONTROL FACILITY	24,000 SF	4,000
211-183	SOF SOUND SUPPRESSION ENGINE TEST FACILITY	5,000 SF	550
721-312	ALTER UNACCOMPANIED ENLISTED HSG	300 PN	5,600
872-248	FLIGHTLINE SECURITY	24,200 LF	700
		TOTAL:	12,450

9b. Future Projects: Typical Planned Next Three Years:

121-111		2,000 SF	680
130-835	SECURITY POLICE OPERATIONS	21,600 SF	2,500
141-383	TECHNICAL PHOTO/SUPPORT FAC	16,100 SF	2,160

10. Mission or Major Functions: Support of an Air Force Weapons laboratory, the Air Force Contract Management Division, the Air Force Operational Test and Evaluation Center, Office of Chief of Security Police, Rescue Combat Aircrew Training Wing, NCO Academy, Operational Support Airlift Detachment, Defense Nuclear Agency Field Command, Naval Weapons Evaluation Facility, Sandia Laboratories, Lovelace Biomedical and Environmental Research Institute, Department of Energy Albuquerque Operations Office, AF Directorate of Nuclear Surety, and AF Space

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION KIRTLAND AIR FORCE BASE, NEW MEXICO	4. PROJECT TITLE ADD TO AND ALTER HELICOPTER TRAINING AREA

5. PROGRAM ELEMENT 4.18.96	6. CATEGORY CODE 116-663	7. PROJECT NUMBER MHMV903000	8. PROJECT COST($000) 2,650

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ADD TO AND ALTER HELICOPTER TRAINING AREA	LS			2,070
HELICOPTER PAD	LS			(1,120)
REMOTE CONTROL TOWER	LS			(300)
AIRFIELD PAVEMENTS LIGHTING	LS			(350)
FIRE STATION	LS			(300)
SUPPORTING FACILITIES				330
UTILITIES	LS			(110)
PAVEMENTS	LS			(110)
SITE IMPROVEMENT	LS			(110)
SUBTOTAL				2,400
CONTINGENCY (5%)				120
TOTAL CONTRACT COST				2,520
SUPERVISION, INSPECTION AND OVERHEAD (6%)				151
TOTAL REQUEST				2,671
TOTAL REQUEST (ROUNDED)				2,650

10. Description of Proposed Construction: Replace AM-2 matting on five pads with concrete and asphalt shoulders, add night remote pad, realign two dirt practice slide areas, construct observation/control tower, add to existing fire station, install water well system, widen and overlay existing roads, provide lighting and permanent wind sock and other necessary support.

11. REQUIREMENT: As required.
PROJECT: Add to and alter helicopter training area. (Current Mission)
REQUIREMENT: Adequate helicopter pads and slides to provide safe landing zones that meet mission needs and training requirements. A night remote pad is required to satisfy night training requirements. An observation/control tower will increase training safety and allow simultaneous use of the area.
CURRENT SITUATION: Inadequate pad size and the unavailability of a night remote pad have limited the effectiveness and quality of helicopter training. The present pads are too small (40'x60') for the current larger and heavier helicopters. Current Air Force requirements specify 100'x100' pads. In addition to being improperly sized, the present pads were constructed from aluminum matting on a dirt surface. This matting has deteriorated to the extent that maintenance and repair costs have become excessive and helicopter tires often are cut and torn. Engine repair and cleaning due to dust is also above normal because of current pad construction. In an effort to reduce the dust, the area is chemically stabilized semiannually. This procedure is expensive and time-consuming. The two slides to be realigned do not meet distance criteria. There is currently no control tower, although up to eight helicopters often operate simultaneously in the area. One instructor must monitor traffic, as well

DD FORM 1391, DEC 76   Previous editions are obsolete.   Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION KIRTLAND AIR FORCE BASE, NEW MEXICO		
4. PROJECT TITLE ADD TO AND ALTER HELICOPTER TRAINING AREA		5. PROJECT NUMBER MHMV903000

as teach, from an operating helicopter.
IMPACT IF NOT PROVIDED: Full training requirements for Air Force helicopter pilots cannot be met. This could lower the effectiveness of aircrew training.
ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION KIRTLAND AIR FORCE BASE, NEW MEXICO		
4. PROJECT TITLE ADD TO AND ALTER HELICOPTER TRAINING AREA		5. PROJECT NUMBER MHMV903000

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:

(a) Date Design Started	88 MAR 23
(b) Percent Complete as of Jan 90	100%
(c) Date 35% Designed	88 AUG 08
(d) Date Design Complete	89 JUL 30

(2) Basis:

(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A

(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	168
(b) All Other Design Costs	
(c) Total	168
(d) Contract	168
(e) In-house	

(4) Construction Start	91 JAN

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION KIRTLAND AIR FORCE BASE, NEW MEXICO	4. PROJECT TITLE ALTER DORMITORIES

5. PROGRAM ELEMENT 4.18.96	6. CATEGORY CODE 721-312	7. PROJECT NUMBER MHMV913025	8. PROJECT COST($000) 1,550

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ALTER DORMITORIES (128 PN)	SF	30,400	40	1,216
SUPPORTING FACILITIES				110
UTILITIES	LS			(50)
PAVEMENTS	LS			(30)
SITE IMPROVEMENTS	LS			(30)
SUBTOTAL				1,326
CONTINGENCY (10%)				133
TOTAL CONTRACT COST				1,459
SUPERVISION, INSPECTION AND OVERHEAD (6%)				88
TOTAL REQUEST				1,547
TOTAL REQUEST (ROUNDED)				1,550

10. Description of Proposed Construction: All electrical, mechanical, and structural work necessary to upgrade existing dorms to acceptable standards of livability. Install semi-private baths, balconies, and improve safety, building maintainability and energy conservation features to correct deficiencies. Grade Mix: 128 E1-E4.

11. REQUIREMENT: 2,023 PN ADEQUATE: 646 PN SUBSTANDARD: 1,050 PN

PROJECT: Alter dormitories. (Current Mission)

REQUIREMENT: A major Air Force objective is to provide unaccompanied enlisted personnel with housing conducive to their proper rest, relaxation and personal well-being. Properly designed and furnished quarters providing some degree of individual privacy are essential to the successful accomplishment of the increasingly complicated and important jobs these people must perform.

CURRENT SITUATION: The majority of assigned unaccompanied enlisted personnel live in dormitories not meeting current Air Force standards or in off-base quarters costing more that they can afford. Existing dormitories have central latrines, inadequate control of heating and air conditioning, insufficient noise attenuation and lack the necessary amenities to adequately house enlisted personnel. This project will upgrade two existing buildings.

IMPACT IF NOT PROVIDED: Substandard living conditions on base and expensive off-base housing will continue to degrade the morale, productivity and career satisfaction of the enlisted force.

ADDITIONAL: An economic analysis has been prepared comparing the alternatives of new construction, revitalization, paying housing and subsistance allowances, and status quo. Based on the net present values and benefits of the respective alternatives, revitalization was found to

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION

KIRTLAND AIR FORCE BASE, NEW MEXICO

4. PROJECT TITLE ALTER DORMITORIES	5. PROJECT NUMBER MHMV913025

be the most cost efficient over the life of the project. This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION KIRTLAND AIR FORCE BASE, NEW MEXICO		
4. PROJECT TITLE ALTER DORMITORIES		5. PROJECT NUMBER MHMV913025

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	87 MAR 26
(b) Percent Complete as of Jan 90	100%
(c) Date 35% Designed	88 SEP 15
(d) Date Design Complete	89 DEC 15
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	95
(b) All Other Design Costs	15
(c) Total	110
(d) Contract	95
(e) In-house	15
(4) Construction Start	91 JAN

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION SEYMOUR-JOHNSON AIR FORCE BASE, NORTH CAROLINA	4. COMMAND TACTICAL AIR COMMAND	5. AREA CONST COST INDEX 0.78

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 89	575	4088	644		12				5	5,324
b. End FY 1995	564	4209	651		12				5	5,441

7. INVENTORY DATA ($000)

a. Total Acreage: (50,722)	
b. Inventory Total As Of: (30 SEP 89)	156,442
c. Authorization Not Yet In Inventory:	34,760
d. Authorization Requested In This Program:	2,502
e. Authorization Included In Following Program: (FY 92)	17,500
f. Planned In Next Three Program Years:	21,300
g. Remaining Deficiency:	0
h. Grand Total:	232,504

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
112-211	REPAIR TAXIWAY	LS	1,052	SEP 88	JUN 90
442-768	BASE FORMS AND PUBLICATIONS WAREHOUSE	9,600 SF	600	DEC 84	JUL 90
880-232	FIRE PROTECTION SYSTEMS	LS	850	FEB 89	FEB 90
		TOTAL:	2,502		

9a. Future Projects: Included in the Following Program (FY 92)

113-321	KC-10 AIRCRAFT PARKING APRON AND HYDRANT FUEL SYSTEM ADD'N	65,000 SY	6,900
211-179	ADD/ALTER KC-10 FUEL SYSTEM MAINTENANCE/CORROSION CONTROL	24,000 SF	2,300
411-135	JET FUEL STORAGE	100,000 BL	3,200
721-312	ALTER AMN PERMANENT PARTY/PCS DORM	304 PN	5,100
		TOTAL:	17,500

9b. Future Projects: Typical Planned Next Three Years:

411-135	JET FUEL STORAGE	100,000 BL	3,400
411-135	JET FUEL STORAGE	100,000 BL	3,600
610-144	MUNITIONS MAINT ADMINISTRATION	2,500 SF	400
721-312	ALTER AMN PERMANENT PARTY/PCS DORM	304 PN	5,100
722-351	AIRMEN DINING HALL (DETACHED)	27,200 SF	5,000

10. Mission or Major Functions: This base hosts a tactical fighter wing of F-4 and F-15 aircraft, an air refueling wing of KC-10 aircraft, and a fighter interceptor detachment.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION SEYMOUR-JOHNSON AIR FORCE BASE NORTH CAROLINA	4. PROJECT TITLE REPAIR TAXIWAY

5. PROGRAM ELEMENT 9.12.15	6. CATEGORY CODE 112-211	7. PROJECT NUMBER VKAG919191	8. PROJECT COST($000) 1,052

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
REPAIR TAXIWAY	LS			775
SUPPORTING FACILITIES				125
TAXIWAY LIGHTING	LS			(125)
SUBTOTAL				900
CONTINGENCY (10%)				90
TOTAL CONTRACT COST				990
SUPERVISION, INSPECTION AND OVERHEAD (6%)				59
TOTAL REQUEST				1,049
TOTAL REQUEST (ROUNDED)				1,052

10. Description of Proposed Construction: Repair surface of shoulder and overlay. Repair pavement on remaining shoulder areas. Upgrade keel with portland cement concrete pavement. Includes all utilities and other necessary support.

11. REQUIREMENT: As required.
PROJECT: Repair taxiway. (Current Mission)
REQUIREMENT: Adequate taxiway, sized and properly maintained to support safe and effective movement of assigned and projected aircraft.
CURRENT SITUATION: Existing asphaltic concrete pavement is deteriorating rapidly. Usage by KC-10's has been limited to weights under 405,000 pounds. The only alternate route for KC-10's is Taxiway 2 which is closed while Arm-Dearm functions are being employed on fighter aircraft. Serious congestion hampers traffic flow at the west end and frequently jeopardizes flying safety since heavy aircraft must back taxi on the active runway.
IMPACT IF NOT PROVIDED: Pavement failure of Taxiway 3 will mandate that it be closed permanently. Restricted access from the active runway to the parking ramp will adversely impact flight operations.
ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION SEYMOUR-JOHNSON AIR FORCE BASE NORTH CAROLINA		
4. PROJECT TITLE REPAIR TAXIWAY		5. PROJECT NUMBER VKAG919191

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 SEP 03
(b) Percent Complete as of Jan 90	35%
(c) Date 35% Designed	89 NOV 15
(d) Date Design Complete	90 JUN 10
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	21
(b) All Other Design Costs	42
(c) Total	63
(d) Contract	53
(e) In-house	10
(4) Construction Start	91 JAN

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION GRAND FORKS AIR FORCE BASE, NORTH DAKOTA	4. COMMAND STRATEGIC AIR COMMAND	5. AREA CONST COST INDEX 0.95

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 89	700	4475	522							5,697
b. End FY 1995	712	4439	519							5,670

7. INVENTORY DATA ($000)

a. Total Acreage: (5,781)	
b. Inventory Total As Of: (30 SEP 89)	227,668
c. Authorization Not Yet In Inventory:	85,770
d. Authorization Requested In This Program:	77,050
e. Authorization Included In Following Program: (FY 92)	12,430
f. Planned In Next Three Program Years:	15,600
g. Remaining Deficiency:	0
h. Grand Total:	418,518

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE		COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
141-177	PEACEKEEPER-GARRISON FACILITIES		LS	50,000	JUN 89	JUN 90
171-000	PEACEKEEPER-TRAINING TRAIN SHELTER	30,000	SF	3,000	JUL 89	MAR 90
212-216	PEACEKEEPER-MISSILE OPERATIONS INTEGRATED MAINTENANCE FAC	39,000	SF	5,500	JUN 89	JUN 90
212-216	ADD TO AND ALTER MISSILE MAINTENANCE/SUPPORT FACILITY		LS	4,700	DEC 88	JUN 90
214-426	ADD TO AND ALTER TRANSPORTATION COMPLEX	83,300	SF	4,150	NOV 88	JUN 90
217-722	PEACEKEEPER-ADD TO AND ALTER COMMUNICATIONS MAINTENANCE FAC	6,000	SF	800	JUN 89	JUN 90
860-000	PEACEKEEPER-ROAD, RAILROAD AND UTILITIES		LS	7,900	JUN 89	JUN 90
911-000	PEACEKEEPER-LAND ACQUISITION	591	AC	1,000		
		TOTAL:		77,050		

9a. Future Projects: Included in the Following Program (FY 92)

130-142	PEACEKEEPER-FIRE STATION	3,720	SF	730
721-312	PEACEKEEPER-DORMITORY	42,200	SF	4,700
721-312	OTH-B DORMITORY	120	PN	2,600
740-674	ADD TO AND ALTER PHYSICAL FITNESS CENTER	53,000	SF	4,400
		TOTAL:		12,430

9b. Future Projects: Typical Planned Next Three Years:

130-835	SECURITY POLICE OPERATIONS	41,144	SF	6,850
171-625	ADDITION TO TECHNICAL TRAINING FACILITY	10,800	SF	1,400
610-913	ADD TO AND ALTER DISASTER PREPAREDNESS	8,433	SF	1,150
722-351	DINING FACILITY/TROOP ISSUE STORAGE	28,000	SF	5,700
872-240	ALERT TAXIWAY BARRIER		LS	500

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION GRAND FORKS AIR FORCE BASE, NORTH DAKOTA	4. COMMAND STRATEGIC AIR COMMAND	5. AREA CONST COST INDEX 0.95

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of										
b. End FY 19										

7. INVENTORY DATA ($000)

a. Total Acreage:
b. Inventory Total As Of:
c. Authorization Not Yet In Inventory:
d. Authorization Requested In This Program:
e. Authorization Included In Following Program:
f. Planned In Next Three Program Years:
g. Remaining Deficiency:
h. Grand Total:

10. Mission or Major Functions: Active mission support activities include an Air Division Headquarters, a heavy bombardment operational wing including one B-1B squadron and one KC-135 squadron which maintain a bomber and tanker alert force; and a strategic missile wing consisting of three Minuteman missile squadrons which maintain a continuous alert posture; and a MAC rescue and recovering squadron operating HH-1H aircraft.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION GRAND FORKS AIR FORCE BASE, NORTH DAKOTA	4. PROJECT TITLE PEACEKEEPER-GARRISON FACILITIES

5. PROGRAM ELEMENT 1.12.15	6. CATEGORY CODE 141-177	7. PROJECT NUMBER PAYZ913500	8. PROJECT COST($000) 50,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PEACEKEEPER-GARRISON FACILITIES	LS			44,529
TRAIN ALERT SHELTER (4 EA)	SF	144,000	175	(25,200)
ENTRY CONTROL FACILITY	SF	750	540	(405)
ALERT SECURITY/CONTROL CENTER	SF	20,000	175	(3,500)
GARRISON MAINTENANCE FACILITY	SF	22,000	240	(5,280)
FACILITY ACCESS RAIL	LF	9,900	430	(4,257)
ROADS , UTILITIES, SECURITY FENCING	LS			(5,211)
RELOCATE VARIOUS FACILITIES	LS			(404)
REENTRY SYSTEM STORAGE FACILITY	SF	1,600	170	(272)
SUBTOTAL				44,529
CONTINGENCY (5%)				2,226
TOTAL CONTRACT COST				46,755
SUPERVISION, INSPECTION AND OVERHEAD (6%)				2,805
TOTAL REQUEST				49,560
TOTAL REQUEST (ROUNDED)				50,000

10. Description of Proposed Construction: Reinforced concrete foundations and floor slabs, roof and wall systems, fire protection, security, rails, roads, utilities, pavements, site improvement and other necessary support.

11. REQUIREMENT: As required.
PROJECT: Construct garrison facilities to house the Peacekeeper Missile Train System. (New Mission)
REQUIREMENT: Facilities to support the Rail Garrison Missile System. These consist of four Train Alert Shelters (TAS) to house the Peacekeeper Missile Train System; the igloo portion of the TAS to provide interfaces for the launch ports and train egress doors; an entry control facility to control access of personnel, vehicles, and material into the garrison area; security, fencing, and lighting within and around the entire garrison perimeter to assist in deterring unauthorized entry; a Garrison Alert and Security Control Center to house the train alert crew and security forces; Garrison Maintenance Facility (GMF) to perform organizational maintenance on trains including Missile Guidance Control Set and removal and replacement of reentry systems; railroad tracks and roads to provide access to the Garrison facilities; and a standby power facility for standby generators to ensure continuous electrical power is available to the garrison area loads.
CURRENT SITUATION: There are no existing facilities at this location that will satisfy the garrison area requirements of the Peacekeeper Rail Garrison System. The siting of the garrison area will require relocating existing communications facilities and associated roads and utilities. Although adequate for current use, these facilities will be unusable due to their location within the garrison facility quantity-distance safety

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION

GRAND FORKS AIR FORCE BASE, NORTH DAKOTA

4. PROJECT TITLE PEACEKEEPER-GARRISON FACILITIES	5. PROJECT NUMBER PAXZ913500

zones and require resiting and replacing as part of this project.
IMPACT IF NOT PROVIDED: Garrison system acquisition milestones require that these facilities be provided to support final operational capability. A delay of critical facilities would cause an adverse effect on the Peacekeeper Rail Garrison System deployment.
ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION GRAND FORKS AIR FORCE BASE, NORTH DAKOTA		
4. PROJECT TITLE PEACEKEEPER-GARRISON FACILITIES		5. PROJECT NUMBER PAYZ913500

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 JUN 15
(b) Percent Complete as of Jan 90	50%
(c) Date 35% Designed	89 SEP 10
(d) Date Design Complete	90 JUN 15
(2) Basis:	
(a) Standard or Definitive Design -	YES
(b) Where Design Was Most Recently Used -	F E WARR
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	4000
(b) All Other Design Costs	560
(c) Total	4560
(d) Contract	4200
(e) In-house	360
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION GRAND FORKS AIR FORCE BASE, NORTH DAKOTA	4. PROJECT TITLE PEACEKEEPER-TRAINING TRAIN SHELTER

5. PROGRAM ELEMENT 1.12.15	6. CATEGORY CODE 171-000	7. PROJECT NUMBER PAYZ913505	8. PROJECT COST($000) 3,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PEACEKEEPER-TRAINING TRAIN SHELTER	SF	30,000	80	2,400
SUPPORTING FACILITIES				295
UTILITIES	LS			(125)
PAVEMENTS	LS			(170)
SUBTOTAL				2,695
CONTINGENCY (5%)				135
TOTAL CONTRACT COST				2,830
SUPERVISION, INSPECTION AND OVERHEAD (6%)				170
TOTAL REQUEST				3,000
TOTAL REQUEST (ROUNDED)				3,000

10. Description of Proposed Construction: Reinforced concrete footings, and floor slabs, roof and wall systems, site improvements and other necessary support.

11. REQUIREMENT: 20,800 SF ADEQUATE: 0 SUBSTANDARD: 0

PROJECT: Construct a Peacekeeper rail garrison training train shelter. (New Mission)

REQUIREMENT: A facility to house the training train for organizational maintenance and operational deployment training. The shelter simulates the interior of an operational train alert shelter and will permit maintenance and repair training.

CURRENT SITUATION: There are no existing facilities at this location that will satisfy or accommodate the training train requirements.

IMPACT IF NOT PROVIDED: Specialized maintenance training for the rail garrison system would be compromised and continued capability of the weapon system jeopardized.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION GRAND FORKS AIR FORCE BASE, NORTH DAKOTA		
4. PROJECT TITLE PEACEKEEPER-TRAINING TRAIN SHELTER		5. PROJECT NUMBER PAYZ913505

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:

(a) Date Design Started	89 JUL 01
(b) Percent Complete as of Jan 90	35%
(c) Date 35% Designed	89 NOV 30
(d) Date Design Complete	90 MAR 01

(2) Basis:

(a) Standard or Definitive Design -	YES
(b) Where Design Was Most Recently Used -	F E WARR

(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	126
(b) All Other Design Costs	46
(c) Total	172
(d) Contract	132
(e) In-house	40

(4) Construction Start	90 NOV

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION GRAND FORKS AIR FORCE BASE, NORTH DAKOTA	4. PROJECT TITLE ADD TO AND ALTER MISSILE MAINTENANCE/SUPPORT FACILITY

5. PROGRAM ELEMENT 1.18.96	6. CATEGORY CODE 212-216	7. PROJECT NUMBER JFSD909021	8. PROJECT COST($000) 4,700

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ADD TO AND ALTER MISSILE MAINTENANCE/SUPPORT FACILITY	LS			3,227
ADDITION	SF	45,200	65	(2,938)
ALTERATION	LS			(289)
SUPPORTING FACILITIES				975
UTILITIES	LS			(600)
SITE IMPROVEMENTS	LS			(70)
FIRE PROTECTION	LS			(60)
COMMUNICATIONS SUPPORT	LS			(25)
PAVEMENTS	LS			(220)
SUBTOTAL				4,202
CONTINGENCY (5%)				210
TOTAL CONTRACT COST				4,412
SUPERVISION, INSPECTION AND OVERHEAD (6%)				265
TOTAL REQUEST				4,677
TOTAL REQUEST (ROUNDED)				4,700

10. Description of Proposed Construction: Reinforced concrete foundation and floor slab, steel frame, masonry walls, and insulated roof for addition. All structural, mechanical and electrical work to alter existing facilities. Includes missile maintenance shop, vehicle readiness space and other necessary support. Air Conditioning: 100 Tons.

11. REQUIREMENT: 108,200 LS ADEQUATE: 20,750 LS SUBSTANDARD: 31,500 LS

PROJECT: Add to and alter missile maintenance facility and alter management support and vehicle readiness facility. (Current Mission)

REQUIREMENT: Adequate space to accommodate missile maintenance, vehicle readiness, storage and related management support functions. Relocation and consolidation of missile maintenance functions into the primary missile maintenance facility is required to ensure efficient management of missile maintenance. Alteration and upgrade of vacated space is required to satisfy deficiencies in headquarters and management control functions.

CURRENT SITUATION: Missile maintenance is now being done in two separate facilities. One building is dedicated completely to missile function, but it provides less than 60% of the required space. The remainder of the missile maintenance and related support activities are located in a large multi-use building which is primarily used for management and supervisory functions. The separation of missile-related activities creates scheduling, coordinating, dispatching and management problems. Also, within the large multi-use building, there is physical separation and general inefficient and ineffective use of available space. This building was not designed for missile maintenance support and, as a result, extensive work-arounds must be used. It has limited access plus traffic and parking problems due to its physical location. Vehicles must be constantly manuevered to position them for loading/unloading and to

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION GRAND FORKS AIR FORCE BASE, NORTH DAKOTA		
4. PROJECT TITLE ADD TO AND ALTER MISSILE MAINTENANCE/SUPPORT FACILITY		5. PROJECT NUMBER JFSD909021

accommodate normal traffic on adjacent streets. There is insufficient indoor heated parking available for critical, specially configured missile maintenance vehicles. This results in their being parked outside in the severe northern tier weather at Grand Forks. They become hard to start and cause untimely response to priority maintenance problems.

IMPACT IF NOT PROVIDED: Missile maintenance functions will continue to operate from separate facilities with the resulting lack of control. Unique, mission critical vehicles and equipment will be exposed to extreme northern tier weather and will continue to experience excessive down-time and unusually high maintenance rates, thus impacting mission effectiveness. Inadequate facilities will continue to demand excessive resources to maintain.

ADDITIONAL: An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, alteration and upgrade were found to be the most cost efficient over the life of the project. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION GRAND FORKS AIR FORCE BASE, NORTH DAKOTA		
4. PROJECT TITLE ADD TO AND ALTER MISSILE MAINTENANCE/SUPPORT FACILITY		5. PROJECT NUMBER JFSD909021

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 DEC 15
(b) Percent Complete as of Jan 90	65%
(c) Date 35% Designed	89 AUG 01
(d) Date Design Complete	90 JUN 30
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	306
(b) All Other Design Costs	
(c) Total	306
(d) Contract	214
(e) In-house	92
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION GRAND FORKS AIR FORCE BASE, NORTH DAKOTA	4. PROJECT TITLE PEACEKEEPER-MISSILE OPERATIONS INTEGRATED MAINTENANCE FAC

5. PROGRAM ELEMENT 1.12.15	6. CATEGORY CODE 212-216	7. PROJECT NUMBER PAYZ913503	8. PROJECT COST($000) 5,500

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PEACEKEEPER-MISSILE OPERATIONS INTEGRATED MAINTENANCE FAC	SF	39,000		3,927
MISSILE OPERATIONS FACILITY	SF	24,000	98	(2,352)
INTEGRATED MAINTENANCE FACILITY	SF	15,000	105	(1,575)
SUPPORTING FACILITIES				1,030
UTILITIES	LS			(770)
PAVEMENTS	LS			(260)
SUBTOTAL				4,957
CONTINGENCY (5%)				248
TOTAL CONTRACT COST				5,205
SUPERVISION, INSPECTION AND OVERHEAD (6%)				312
TOTAL REQUEST				5,517
TOTAL REQUEST (ROUNDED)				5,500

10. Description of Proposed Construction: Reinforced concrete foundations and floor slabs, roof and wall systems as required, site improvements and other necessary support. Includes diesel fuel storage tanks and dispensing outlets.

11. REQUIREMENT: As required.

PROJECT: Construct a missile operations/integrated maintenance facility to support the operational control of the Peacekeeper Rail Garrison Missile System. (New Mission)

REQUIREMENT: A facility to house functions that support the operational control of the Peacekeeper Rail Garrison System. It will house operations, command and security control functions. Space is also provided for maintenance, test, and repair of Peacekeeper electronic and mechanical subassemblies and equipment, and a secure vault for storage of critical components and missile guidance control sets. Diesel storage is required to support fuel requirements for the garrison trains.

CURRENT SITUATION: There are no existing facilities at this location that satisfy or accommodate the various missile operations/integrated maintenance space requirements of the Peacekeeper Rail Garrison System.

IMPACT IF NOT PROVIDED: Garrison system acquisition milestones require that this facility be provided to support final operational capability. A delay of critical facilities would cause an adverse effect in meeting the Peacekeeper Rail Garrison System milestones.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

DD FORM 1391, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION GRAND FORKS AIR FORCE BASE, NORTH DAKOTA		
4. PROJECT TITLE PEACEKEEPER-MISSILE OPERATIONS INTEGRATED MAINTENANCE FAC		5. PROJECT NUMBER PAYZ913503

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 JUN 15
(b) Percent Complete as of Jan 90	50%
(c) Date 35% Designed	89 SEP 10
(d) Date Design Complete	90 JUN 15
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	250
(b) All Other Design Costs	125
(c) Total	375
(d) Contract	300
(e) In-house	75
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION GRAND FORKS AIR FORCE BASE, NORTH DAKOTA	4. PROJECT TITLE ADD TO AND ALTER TRANSPORTATION COMPLEX

5. PROGRAM ELEMENT 1.18.96	6. CATEGORY CODE 214-426	7. PROJECT NUMBER JFSD888803	8. PROJECT COST($000) 4,150

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ADD TO AND ALTER TRANSPORTATION COMPLEX	SF	83,300		3,273
ADDITIONS	SF	6,800	110	(748)
ALTERATION	SF	76,500	33	(2,525)
SUPPORTING FACILITIES				285
UTILITIES	LS			(70)
SITE IMPROVEMENTS	LS			(35)
COMMUNICATIONS SUPPORT	LS			(40)
FIRE PROTECTION	LS			(30)
PAVEMENTS	LS			(110)
SUBTOTAL				3,558
CONTINGENCY (10%)				356
TOTAL CONTRACT COST				3,914
SUPERVISION, INSPECTION AND OVERHEAD (6%)				235
TOTAL REQUEST				4,149
TOTAL REQUEST (ROUNDED)				4,150

10. Description of Proposed Construction: Reinforced concrete foundations and floor slabs, structural frames, walls and roof system. Includes vehicle and petroleum operations, vehicle maintenance and readiness, paint booth, widening overhead doors, lighting and other necessary support. Air Conditioning: 40 Tons.

11. REQUIREMENT: 168,400 SF ADEQUATE: 85,000 SF SUBSTANDARD: 77,140 SF

PROJECT: Add to four facilities and alter six existing buildings to provide for vehicle operations, maintenance and readiness, and petroleum operations activities. (Current Mission)

REQUIREMENT: Adequate facilities to accommodate vehicle and petroleum operations, vehicle maintenance and heated parking, and painting of large vehicles. Facilities must have fire protection and adequate health and safety measures to provide a safe working environment.

CURRENT SITUATION: The petroleum operations function currently occupies a temporary trailer which is too small, a high fire risk, inadequately wired, poorly lighted and poorly insulated. It also has no water or latrine and requires frequent maintenance. Personnel must use electric space heaters for heat during the winter months. Lab space is inadequate, and no space exists for training. The existing paint booth is too small to permit painting of large vehicles. They must be sent off base and painted in a commercial facility which is expensive and time consuming. Existing vehicle operations, vehicle maintenance, and vehicle readiness facilities lack fire protection and health and safety measures, which subjects personnel, vehicles and equipment to hazardous conditions.

IMPACT IF NOT PROVIDED: Vehicles, equipment and personnel will continue to work and operate in substandard facilities which are hazardous to their health and safety. This will have a detrimental impact on personnel

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION GRAND FORKS AIR FORCE BASE, NORTH DAKOTA		
4. PROJECT TITLE ADD TO AND ALTER TRANSPORTATION COMPLEX		5. PROJECT NUMBER JFSD888803

morale and performance capabilities which could adversely affect vehicle operations and maintenance, and mission capability.

ADDITIONAL: An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, revitalization was found to be the most cost efficient over the life of the project. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION

GRAND FORKS AIR FORCE BASE, NORTH DAKOTA

4. PROJECT TITLE ADD TO AND ALTER TRANSPORTATION COMPLEX	5. PROJECT NUMBER JFSD888803

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 NOV 15
(b) Percent Complete as of Jan 90	60%
(c) Date 35% Designed	89 AUG 01
(d) Date Design Complete	90 JUN 30
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	270
(b) All Other Design Costs	67
(c) Total	337
(d) Contract	236
(e) In-house	101
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION GRAND FORKS AIR FORCE BASE, NORTH DAKOTA	4. PROJECT TITLE PEACEKEEPER-ROAD, RAILROAD AND UTILITIES

5. PROGRAM ELEMENT 1.12.15	6. CATEGORY CODE 860-000	7. PROJECT NUMBER PAYZ913506	8. PROJECT COST($000) 7,900

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PEACEKEEPER-ROAD, RAILROAD AND UTILITIES	LS			7,071
RAILROAD/ROADS/FENCING	LS			(4,323)
WATER DISTRIBUTION SYSTEM	LS			(128)
HEATING	LS			(1,455)
ELECTRICAL	LS			(50)
COMMUNICATIONS	LS			(994)
SANITARY SEWER SYSTEM	LS			(121)
SUBTOTAL				7,071
CONTINGENCY (5%)				354
TOTAL CONTRACT COST				7,425
SUPERVISION, INSPECTION AND OVERHEAD (6%)				446
TOTAL REQUEST				7,871
TOTAL REQUEST (ROUNDED)				7,900

10. Description of Proposed Construction: Construct roads and utilities, provide rail connections, energy management control system (EMCS) and other necessary support.

11. REQUIREMENT: As required.

PROJECT: Construct access roads, rail and miscellaneous utilities to connect rail garrison facilities to existing base systems. (New Mission)

REQUIREMENT: Roads, rail and utilities to serve the rail garrison facilities. Fiber optic conduit to connect the Garrison with the Wing command post and security control and to connect the Garrison and other support facilities to the existing EMCS.

CURRENT SITUATION: There are insufficient roads, rail and utilities to support the rail garrison and other support facilities.

IMPACT IF NOT PROVIDED: The rail garrison would be inoperable and would not be available to support final operational capability. A delay of the supporting facilities would adversely affect the Peacekeeper rail garrison mission.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION GRAND FORKS AIR FORCE BASE, NORTH DAKOTA		
4. PROJECT TITLE PEACEKEEPER-ROAD, RAILROAD AND UTILITIES		5. PROJECT NUMBER PAYZ913506

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 JUN 15
(b) Percent Complete as of Jan 90	50%
(c) Date 35% Designed	89 SEP 10
(d) Date Design Complete	90 JUN 15
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	138
(b) All Other Design Costs	57
(c) Total	195
(d) Contract	160
(e) In-house	35
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION MINOT AIR FORCE BASE, NORTH DAKOTA	4. COMMAND STRATEGIC AIR COMMAND	5. AREA CONST COST INDEX 1.04

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 89	776	4630	614							6,020
b. End FY 1995	769	4591	611							5,971

7. INVENTORY DATA ($000)

a. Total Acreage: (5,406)	
b. Inventory Total As Of: (30 SEP 89)	272,137
c. Authorization Not Yet In Inventory:	81,302
d. Authorization Requested In This Program:	3,600
e. Authorization Included In Following Program: (FY 92)	3,950
f. Planned In Next Three Program Years:	21,800
g. Remaining Deficiency:	0
h. Grand Total:	382,789

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
740-884	CHILD DEVELOPMENT CENTER	23,800 SF	3,600	DEC 89	NOV 90
		TOTAL:	3,600		

9a. Future Projects: Included in the Following Program (FY 92)

212-216	ADD TO AND ALTER MISSILE MAINTENANCE SHOP	34,300 SF	3,950
		TOTAL:	3,950

9b. Future Projects: Typical Planned Next Three Years:

130-142	FIRE/CRASH RESCUE STATION	20,500 SF	3,550
211-175	ALTER AIRCRAFT MAINTENANCE DOCK (FIRE SUPPRESSION SYSTEM)	156,000 SF	3,050
721-312	DORMITORY	38,000 SF	4,600
740-677	ADD TO AND ALTER PHYSICAL FITNESS CENTER/SWIMM POOL	15,700 SF	2,200
831-165	SEWAGE LAGOON	LS	1,300

10. Mission or Major Functions: Active mission support activities include an air division headquarters responsible for management, command, control and direction of assigned Strategic Air Command units; a heavy bombardment operational wing including one B-52 squadron and one KC-135 squadron which maintain a bomber and tanker alert force; a strategic missile wing consisting of three Minuteman missile squadrons which maintain a continuous alert posture, and a MAC rescue and recovery squadron.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION MINOT AIR FORCE BASE, NORTH DAKOTA	4. PROJECT TITLE CHILD DEVELOPMENT CENTER

5. PROGRAM ELEMENT 1.18.96	6. CATEGORY CODE 740-884	7. PROJECT NUMBER OJVF902006	8. PROJECT COST($000) 3,600

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
CHILD DEVELOPMENT CENTER	SF	23,800		2,693
CHILD DEVELOPMENT CENTER	SF	23,000	115	(2,645)
COVERED STORAGE	SF	800	60	(48)
SUPPORTING FACILITIES				530
COMMUNICATIONS SUPPORT	LS			(90)
SITE IMPROVEMENTS	LS			(145)
UTILITIES	LS			(295)
SUBTOTAL				3,223
CONTINGENCY (5%)				161
TOTAL CONTRACT COST				3,384
SUPERVISION, INSPECTION AND OVERHEAD (6%)				203
TOTAL REQUEST				3,587
TOTAL REQUEST (ROUNDED)				3,600

10. Description of Proposed Construction: Construct child development center, to include reinforced concrete foundation and floor slab, masonry walls, standing seam metal roof. Provide all utilities, fire protection systems, EMCS, playground equipment storage, parking and access pavements, and other necessary support. Includes care and isolation rooms, kitchen, dining/multi-purpose room, laundry, nursery and administrative space.
Air Conditioning: 70 Tons.

11. REQUIREMENT: 76,200 LS ADEQUATE: 0 SUBSTANDARD: 9,000 LS

PROJECT: Construct a Child Development Center. (Current Mission)

REQUIREMENT: An adequately sized Child Developement Center for a minimum of 290 children under 10 years old and 16 instructors is required so that working parents can leave their children in a safe and healthy environment.

CURRENT SITUATION: The existing child development facilities are too small to support the requirements of military and civilian personnel working at Minot AFB. This results in a long waiting list and a requirement for parents to seek off-base services which are limited and located considerable distances from the base. In addition, during the winter months driving to these facilities is hazardous and sometimes impossible.

IMPACT IF NOT PROVIDED: Children of working parents will continue to be turned away due to inadequate space. Military members must seek higher priced off-base services. The Child Development Center will continue to operate in a inadequate facility unable to meet the usage demand.

ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

DD FORM 1391, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION MINOT AIR FORCE BASE, NORTH DAKOTA		
4. PROJECT TITLE CHILD DEVELOPMENT CENTER		5. PROJECT NUMBER QJVF902006

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 DEC 01
(b) Percent Complete as of Jan 90	%
(c) Date 35% Designed	90 MAY 15
(d) Date Design Complete	90 NOV 01
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	204
(b) All Other Design Costs	34
(c) Total	238
(d) Contract	204
(e) In-house	34
(4) Construction Start	91 MAR

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION NEWARK AIR FORCE BASE, OHIO	4. COMMAND AIR FORCE LOGISTICS COMMAND	5. AREA CONST COST INDEX 1.01

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 89	28	50	2502							2,580
b. End FY 1995	28	50	2485							2,563

7. INVENTORY DATA ($000)

a. Total Acreage: (71)	
b. Inventory Total As Of: (30 SEP 89)	44,676
c. Authorization Not Yet In Inventory:	0
d. Authorization Requested In This Program:	5,100
e. Authorization Included In Following Program: (FY 92)	4,900
f. Planned In Next Three Program Years:	3,170
g. Remaining Deficiency:	0
h. Grand Total:	57,846

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
211-271	PEACEKEEPER-GUIDANCE AND CONTROL FACILITY	22,500 SF	5,100	MAY 89	JUN 90
		TOTAL:	5,100		

9a. Future Projects: Included in the Following Program (FY 92)

610-711	LOGISTICAL SYSTEMS OPERATIONS CENTER	31,000 SF	4,900
		TOTAL:	4,900

9b. Future Projects: Typical Planned Next Three Years:

441-758	DEPOT WAREHOUSE	35,000 SF	2,200
730-142	FIRE STATION	8,400 SF	970

10. Mission or Major Functions: Hosts the Aerospace Guidance and Meteorology Center which repairs inertial guidance and navigation systems for most of the Air Force's missiles and aircraft. Also manages the Air Force's worldwide measurement and calibration program.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION NEWARK AIR FORCE BASE, OHIO	4. PROJECT TITLE PEACEKEEPER-GUIDANCE AND CONTROL FACILITY

5. PROGRAM ELEMENT 7.11.11	6. CATEGORY CODE 211-271	7. PROJECT NUMBER PAYZ913097	8. PROJECT COST($000) 5,100

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PEACEKEEPER-GUIDANCE AND CONTROL FACILITY	SF	22,500	165	3,713
SUPPORTING FACILITIES				645
UTILITIES	LS			(280)
PAVEMENTS	LS			(100)
RELOCATE FACILITY	SF	2,300	115	(265)
SUBTOTAL				4,358
CONTINGENCY (10%)				436
TOTAL CONTRACT COST				4,794
SUPERVISION, INSPECTION AND OVERHEAD (6%)				288
TOTAL REQUEST				5,082
TOTAL REQUEST (ROUNDED)				5,100

10. Description of Proposed Construction: Concrete foundation and floor slab, isolation pads, steel columns, beams, metal roof and other necessary support. Air Conditioning: 25 Tons.

11. REQUIREMENT: 371,041 SF ADEQUATE: 240,691 SF
SUBSTANDARD: 55,167 SF

PROJECT: Add to and alter an environmentally controlled guidance system overhaul shop. (New Mission)

REQUIREMENT: Adequate facilities to provide stable test space at ground level. The siting of this addition will require relocating an existing facility as part of this project.

CURRENT SITUATION: Existing facilities are fully utilized and there are no facilities available that can support the critical requirements of this weapon system.

IMPACT IF NOT PROVIDED: The ability to perform critical inertial guidance testing will be seriously impacted and the performance of this system will be jeopardized.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION NEWARK AIR FORCE BASE, OHIO		
4. PROJECT TITLE PEACEKEEPER-GUIDANCE AND CONTROL FACILITY		5. PROJECT NUMBER PAYZ913097

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 MAY 15
(b) Percent Complete as of Jan 90	90%
(c) Date 35% Designed	89 SEP 10
(d) Date Design Complete	90 JUN 15
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	200
(b) All Other Design Costs	52
(c) Total	252
(d) Contract	212
(e) In-house	40
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION WRIGHT-PATTERSON AIR FORCE BASE, OHIO	4. COMMAND AIR FORCE LOGISTICS COMMAND	5. AREA CONST COST INDEX 1.04

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 89	4522	4053	16730	347			9	18	248	25,927
b. End FY 1995	4451	4031	16832	342			9	18	248	25,931

7. INVENTORY DATA ($000)

a. Total Acreage: (8,245)	
b. Inventory Total As Of: (30 SEP 89)	688,391
c. Authorization Not Yet In Inventory:	74,019
d. Authorization Requested In This Program:	10,150
e. Authorization Included In Following Program: (FY 92)	49,800
f. Planned In Next Three Program Years:	71,450
g. Remaining Deficiency:	0
h. Grand Total:	893,810

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
141-454	FOREIGN MATERIEL EXPLOITATION FACILITY	35,000 SF	4,650	JUN 89	JUL 90
171-851	AFIT PROFESSIONAL AND TECHNICAL EDUCATION FACILITY	54,000 SF	5,500	MAY 88	JAN 90
		TOTAL:	10,150		

9a. Future Projects: Included in the Following Program (FY 92)

112-211	TAXIWAY	105,000 SY	9,800
171-851	AFIT OPERATIONS COMPLEX	82,500 SF	9,400
311-173	ACQUISITION MANAGEMENT COMPLEX PHASE 1	107,000 SF	20,000
311-174	ADD TO FLIGHT TEST ENGINEERING CENTER	42,500 SF	5,300
721-312	DORMITORY	264 PN	5,300
		TOTAL:	49,800

9b. Future Projects: Typical Planned Next Three Years:

136-666	AIRFIELD LIGHTING	LS	2,400
211-111		35,300 SF	4,800
310-921	ADD TO AND ALTER MEDICAL SCIENCE LAB	38,000 SF	7,800
318-612	ADD TO AIR BREATHING PROPULSION LAB	5,400 SF	1,100
442-257	BASE HAZ MATERIALS STORAGE FACILITY	65,000 SF	8,500

10. Mission or Major Functions: AFLC Headquarters responsible for management, command, control and direction of worldwide logistics support for aircraft weapons systems, missiles and related components; AFSC Aeronautical System Division; Air Force Wright Aeronautical Laboratories including Materials, Avionics, Flight Dynamics and Aeropropulsion; Aerospace Medical Research Laboratories; AFSC Foreign Technology Division; the Air Force Institute of Technology (AFIT); the Air Force Museum; and an Air Force Reserve tactical fighter squadron of F-4D and F-16.

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION WRIGHT-PATTERSON AIR FORCE BASE, OHIO	4. COMMAND AIR FORCE LOGISTICS COMMAND	5. AREA CONST COST INDEX 1.04

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of										
b. End FY 19										

7. INVENTORY DATA ($000)

a. Total Acreage:
b. Inventory Total As Of:
c. Authorization Not Yet In Inventory:
d. Authorization Requested In This Program:
e. Authorization Included In Following Program:
f. Planned In Next Three Program Years:
g. Remaining Deficiency:
h. Grand Total:

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION WRIGHT-PATTERSON AIR FORCE BASE, OHIO	4. PROJECT TITLE FOREIGN MATERIAL EXPLOITATION FACILITY

5. PROGRAM ELEMENT 3.13.10	6. CATEGORY CODE 141-454	7. PROJECT NUMBER ZHTV913510	8. PROJECT COST($000) 4,650

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
FOREIGN MATERIEL EXPLOITATION FACILITY	SF	35,000	92	3,220
SUPPORTING FACILITIES				950
UTILITIES	LS			(250)
PAVEMENTS	LS			(200)
SITE IMPROVEMENTS	LS			(200)
COMMUNICATIONS	LS			(300)
SUBTOTAL				4,170
CONTINGENCY (5%)				209
TOTAL CONTRACT COST				4,379
SUPERVISION, INSPECTION AND OVERHEAD (6%)				263
TOTAL REQUEST				4,642
TOTAL REQUEST (ROUNDED)				4,650

10. Description of Proposed Construction: Metal and masonry hangar/laboratory facility. Includes electronics lab, screen room, computer lab, steam cleaning and collection station, high-bay area, security control area and necessary support space. Air Conditioning: 44 Tons.

11. REQUIREMENT: 52,000 SF ADEQUATE: 0 SUBSTANDARD: 17,000 SF

PROJECT: Construct a Foreign Materiel Exploitation Facility. (New Mission)

REQUIREMENT: Secure hangar/laboratory facility in which to examine foreign technology and other Air Force counterpart subsystems that threaten combat forces and national defense. The Foreign Technology Division is the executive agent for the USAF in exploiting foreign equipment to determine the technological achievements of foreign research and development efforts.

CURRENT SITUATION: The existing facility is an undersized World War II maintenance hangar which lacks the proper environmental controls and physical/TEMPEST security. The facility layout does not provide the essential environment necessary for conducting in-house exploitations on modern sophisticated foreign material. The lack of sufficient secure compartments/work areas complicates exploitation procedures and presents potential security risk because the areas are jointly used to analyze various objects requiring special security clearances.

IMPACT IF NOT PROVIDED: Without this facility, there will be continued dependence on external support for scientific and technical intelligence exploitation. This reduces the accuracy, credibility, and technical expertise in Foreign Material Exploitation and impairs successful countermeasure development.

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION WRIGHT-PATTERSON AIR FORCE BASE, OHIO		
4. PROJECT TITLE FOREIGN MATERIAL EXPLOITATION FACILITY		5. PROJECT NUMBER ZHTV913510

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION WRIGHT-PATTERSON AIR FORCE BASE, OHIO		
4. PROJECT TITLE FOREIGN MATERIAL EXPLOITATION FACILITY		5. PROJECT NUMBER ZHTV913510

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 JUN 03
(b) Percent Complete as of Jan 90	35%
(c) Date 35% Designed	89 SEP 14
(d) Date Design Complete	90 JUL 15
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	280
(b) All Other Design Costs	100
(c) Total	380
(d) Contract	250
(e) In-house	130
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION WRIGHT-PATTERSON AIR FORCE BASE, OHIO	4. PROJECT TITLE AFIT PROFESSIONAL AND TECHNICAL EDUCATION FACILITY

5. PROGRAM ELEMENT 8.57.96	6. CATEGORY CODE 171-851	7. PROJECT NUMBER ZHTV903002	8. PROJECT COST($000) 5,500

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
AFIT PROFESSIONAL AND TECHNICAL EDUCATION FACILITY	SF	54,000	80	4,320
SUPPORTING FACILITIES				620
UTILITIES	LS			(195)
PAVEMENTS	LS			(175)
SITE IMPROVEMENTS	LS			(150)
COMMUNICATIONS SUPPORT	LS			(100)
SUBTOTAL				4,940
CONTINGENCY (5%)				247
TOTAL CONTRACT COST				5,187
SUPERVISION, INSPECTION AND OVERHEAD (6%)				311
TOTAL REQUEST				5,498
TOTAL REQUEST (ROUNDED)				5,500

10. Description of Proposed Construction: A two-story facility with masonry walls, concrete foundation, steel joists and lightweight concrete with roof system. Includes classrooms, faculty offices, computer classrooms, computer laboratory, technical laboratories and all necessary support.
Air Conditioning: 150 Tons.

11. REQUIREMENT: 526,300 SF ADEQUATE: 358,700 SF
SUBSTANDARD: 168,700 SF

PROJECT: Construct an Air Force Institute of Technology (AFIT) professional and technical education facility. (Current Mission)

REQUIREMENT: A facility to accommodate the additional faculty and students resulting from AFIT's 54 percent increase in the Civil Engineering course loads since FY 79 and the addition of responsibility for the Services career field education program in FY 86. The facility will provide the space required for new computers and technical laboratories necessary to conduct the required advanced education and research. These laboratories are essential for "hands-on" instruction for Heating Ventilation and Air Conditioning Control Systems, Computer Aided Engineering and Design, Structural Design, Cathodic Protection, Protective Coating, Industrial Water Treatment, Airfield Pavements, Soils, and other areas of facility design, construction, maintenance and repair.

CURRENT SITUATION: The School of Civil Engineering and Services is currently located in a converted WWII wood frame facility which is nearing the end of its useful life. There are over 25 separate mechanical systems servicing the building. Many are unreliable and subject to frequent unpredictable failures, forcing unexpected classroom shuffles to other facilities. In addition, the plumbing, electrical, and roof systems need

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION WRIGHT-PATTERSON AIR FORCE BASE, OHIO		
4. PROJECT TITLE AFIT PROFESSIONAL AND TECHNICAL EDUCATION FACILITY		5. PROJECT NUMBER ZHTV903002

upgrading. There are also serious fire safety deficiencies due to the lack of a fire sprinkler system, isolated alarm systems, and inadequate exits. There are no laboratory facilities in the building, nor is it possible to set up any permanent lab stations in the current classrooms without extensive structural, electrical, and other utility modifications. In order to provide even minimal laboratory exposure, students must be bused to other locations on base at the expense of limited classroom time, or be forced to use portable mockups and makeshift facilities set up at the rear of the classrooms. The result is degraded instruction and severe limitations to any research efforts.

IMPACT IF NOT PROVIDED: Without adequate facilities, there will be a severe degradation in the quality and utility of education provided. The impact will eventually be both seen and felt throughout the Air Force. Without adequate educational facilities, especially laboratories, it will be impossible to stay on the leading edge of technology and maintain accreditation standards.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION WRIGHT-PATTERSON AIR FORCE BASE, OHIO		
4. PROJECT TITLE AFIT PROFESSIONAL AND TECHNICAL EDUCATION FACILITY		5. PROJECT NUMBER ZHTV903002

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 MAY 20
(b) Percent Complete as of Jan 90	95%
(c) Date 35% Designed	89 MAR 15
(d) Date Design Complete	90 JAN 15
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	373
(b) All Other Design Costs	113
(c) Total	486
(d) Contract	420
(e) In-house	66
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE

3. INSTALLATION AND LOCATION ALTUS AIR FORCE BASE, OKLAHOMA	4. COMMAND MILITARY AIRLIFT COMMAND	5. AREA CONST COST INDEX 0.99

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 89	425	3148	598				143	202	2	4,518
b. End FY 1995	388	3008	571				143	202	2	4,314

7. INVENTORY DATA ($000)

a. Total Acreage: (4,405)	
b. Inventory Total As Of: (30 SEP 89)	143,504
c. Authorization Not Yet In Inventory:	42,660
d. Authorization Requested In This Program:	21,700
e. Authorization Included In Following Program: (FY 92)	38,570
f. Planned In Next Three Program Years:	81,000
g. Remaining Deficiency:	0
h. Grand Total:	327,434

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE		COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
116-116	C-17 SHORTFIELD ASSAULT STRIP		LS	9,000	DEC 88	SEP 90
171-212	C-17 ADD TO FLIGHT SIMULATOR FACILITY	45,100	SF	7,100	DEC 88	JUN 90
171-212	ALTER FLIGHT SIMULATOR FACILITY		LS	800	DEC 88	JUL 90
171-618	C-17 FIELD TRAINING FACILITY	45,000	SF	4,800	TURN KEY	
		TOTAL:		21,700		

9a. Future Projects: Included in the Following Program (FY 92)

113-321	SOF-ADD TO AND ALTER APRONS		LS	14,800
141-753	C-17 ALTER SQUADRON OPERATIONS	8,000	SF	570
171-873	C-17AERIAL PORT TRAINING FACILITY	33,400	SF	3,600
211-159	C-17 AIRCRAFT CORROSION CONTROL FACILITY	100,000	SF	13,600
211-179	FUEL SYSTEMS MAINTENANCE DOCK	21,500	SF	6,000
		TOTAL:		38,570

9b. Future Projects: Typical Planned Next Three Years:

111-111	RUNWAY	75,000	SY	22,000
121-122	ADD TO AND ALTER HYDRANT FUELING SYSTEM	19,000	SY	12,800
211-179	FUEL SYSTEMS MAINTENANCE DOCK	22,000	SF	3,700
724-417	VISITING OFFICERS QUARTERS	70	PN	4,500
911-146	LAND, FEE, PURCHASE	640	AC	500

10. Mission or Major Functions: The MAC consolidated training center for C-17, C-5 and C-141 aircrew training. Beddown location for SAC KC-135 refueling group which supports single integrated operations plan (SIOP) tasking.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

INTENTIONAL
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1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION ALTUS AIR FORCE BASE, OKLAHOMA	4. PROJECT TITLE C-17 SHORTFIELD ASSAULT STRIP

5. PROGRAM ELEMENT 4.11.30	6. CATEGORY CODE 116-116	7. PROJECT NUMBER VDYD913503	8. PROJECT COST($000) 9,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
C-17 SHORTFIELD ASSAULT STRIP	LS			7,100
SUPPORTING FACILITIES				1,020
UTILITIES	LS			(360)
SITE IMPROVEMENTS	LS			(660)
SUBTOTAL				8,120
CONTINGENCY (5%)				406
TOTAL CONTRACT COST				8,526
SUPERVISION, INSPECTION AND OVERHEAD (6%)				512
TOTAL REQUEST				9,038
TOTAL REQUEST (ROUNDED)				9,000

10. Description of Proposed Construction: An asphaltic assault landing strip. Area includes taxiway, overrun, lighting, and necessary support.

11. REQUIREMENT: As required.

PROJECT: Construct a C-17 assault landing strip. (New Mission)

REQUIREMENT: An assault landing strip to provide adequate realistic training and continuing proficiency by simulating the type of field conditions to be encountered at forward operating locations by C-17 aircrews.

CURRENT SITUATION: Presently there are no airfield facilities available at this beddown location to provide the essential field training environment required for the new C-17 aircraft.

IMPACT IF NOT PROVIDED: Assigned aircrews will not be able to maintain proficiency in shortfield takeoffs and landings in C-17 aircraft.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, 'Facility Planning and Design Guide'.

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION ALTUS AIR FORCE BASE, OKLAHOMA		
4. PROJECT TITLE C-17 SHORTFIELD ASSAULT STRIP		5. PROJECT NUMBER VDYD913503

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 DEC 30
(b) Percent Complete as of Jan 90	65%
(c) Date 35% Designed	89 MAY 30
(d) Date Design Complete	90 SEP 01
(2) Basis:	
(a) Standard or Definitive Design -	
(b) Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	608
(b) All Other Design Costs	
(c) Total	608
(d) Contract	486
(e) In-house	122
(4) Construction Start	91 APR

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION ALTUS AIR FORCE BASE, OKLAHOMA	4. PROJECT TITLE C-17 ADD TO FLIGHT SIMULATOR FACILITY

5. PROGRAM ELEMENT 4.11.30	6. CATEGORY CODE 171-212	7. PROJECT NUMBER VDYD913502	8. PROJECT COST($000) 7,100

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
C-17 ADD TO FLIGHT SIMULATOR FACILITY	SF	45,100	130	5,863
SUPPORTING FACILITIES				520
UTILITIES	LS			(165)
PAVEMENTS	LS			(140)
SITE IMPROVEMENTS	LS			(160)
DEMOLITION	LS			(55)
SUBTOTAL				6,383
CONTINGENCY (5%)				319
TOTAL CONTRACT COST				6,702
SUPERVISION, INSPECTION AND OVERHEAD (6%)				402
TOTAL REQUEST				7,104
TOTAL REQUEST (ROUNDED)				7,100
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(31,000)

10. Description of Proposed Construction: Two story facility with a high bay area, concrete foundation, floor slab, masonry walls and other necessary support. Air Conditioning: 100 Tons.

11. REQUIREMENT: 120,400 SF ADEQUATE: 75,300 SF SUBSTANDARD: 0

PROJECT: Add to flight simulator training facility for the C-17 aircraft. (New Mission)

REQUIREMENT: This facility is required to house a flight simulator in support of the new C-17 aircraft. This simulator is required to provide initial qualification, proficiency and effective mission procedures training.

CURRENT SITUATION: Existing flight simulator training operations support other assigned aircraft and cannot be used to provide C-17 training. There are no other facilities on base that can be upgraded to meet this requirement. Further, there are no C-17 simulator facilities at other Air Force bases which could provide needed training.

IMPACT IF NOT PROVIDED: The beddown of C-17 aircraft could not be accomplished without providing an adequate flight simulator training facility for training aircrews.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION ALTUS AIR FORCE BASE, OKLAHOMA		
4. PROJECT TITLE C-17 ADD TO FLIGHT SIMULATOR FACILITY		5. PROJECT NUMBER VDYD913502

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 DEC 30
(b) Percent Complete as of Jan 90	60%
(c) Date 35% Designed	89 MAY 30
(d) Date Design Complete	90 JUN 30
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	376
(b) All Other Design Costs	120
(c) Total	496
(d) Contract	376
(e) In-house	120
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations:

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
TRAINING EQUIPMENT	3600	1991	31000

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION ALTUS AIR FORCE BASE, OKLAHOMA	4. PROJECT TITLE C-17 FIELD TRAINING FACILITY

5. PROGRAM ELEMENT 4.11.30	6. CATEGORY CODE 171-618	7. PROJECT NUMBER VDYD913504	8. PROJECT COST($000) 4,800

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
C-17 FIELD TRAINING FACILITY	SF	45,000	86	3,870
SUPPORTING FACILITIES				460
UTILITIES	LS			(155)
PAVEMENTS	LS			(175)
SITE IMPROVEMENTS	LS			(130)
SUBTOTAL				4,330
CONTINGENCY (5%)				217
TOTAL CONTRACT COST				4,547
SUPERVISION, INSPECTION AND OVERHEAD (6%)				273
TOTAL REQUEST				4,820
TOTAL REQUEST (ROUNDED)				4,800

10. Description of Proposed Construction: Reinforced concrete footings, floor slabs, masonry walls and other necessary support.
Air Conditioning: 30 Tons.

11. REQUIREMENT: 45,000 SF ADEQUATE: 0 SUBSTANDARD: 13,451 SF
PROJECT: Construct C-17 Field Training Facility. (New Mission)
REQUIREMENT: An adequate facility to support field training activities for beddown of C-17 aircraft. Space is required for management classrooms, technical orders and mock-up trainers.
CURRENT SITUATION: The existing field training detachment is located in a substandard, inadequately sized converted barracks. The facility is poorly configured and lacks ceiling height to accommodate the equipment necessary to provide required maintenance training. No other facilities exist on base which could be altered to support C-17 field training requirements.
IMPACT IF NOT PROVIDED: It will not be possible to provide adequate maintenance training to support C-17 aircraft at this base.
ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

DD FORM 1391, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION ALTUS AIR FORCE BASE, OKLAHOMA		
4. PROJECT TITLE C-17 FIELD TRAINING FACILITY		5. PROJECT NUMBER VDYD913504

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Project to be accomplished by one step turn key procedures

(2) Basis:

(a) Standard or Definitive Design -	YES
(b) Where Design Was Most Recently Used -	KIRTLAND

(3) Design Allowance	311
(4) Construction Start	91 APR

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION TINKER AIR FORCE BASE, OKLAHOMA	4. COMMAND AIR FORCE LOGISTICS COMMAND	5. AREA CONST COST INDEX 0.87

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 89	1425	5741	17650				3		163	24,982
b. End FY 1995	1422	5760	17330				3		163	24,678

7. INVENTORY DATA ($000)

a. Total Acreage: (5,001)	
b. Inventory Total As Of: (30 SEP 89)	398,888
c. Authorization Not Yet In Inventory:	107,429
d. Authorization Requested In This Program:	55,100
e. Authorization Included In Following Program: (FY 92)	10,450
f. Planned In Next Three Program Years:	85,860
g. Remaining Deficiency:	0
h. Grand Total:	657,727

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
211-116	B-2 ADD TO AND ALTER DEPOT MAINTENANCE HANGAR	84,000 SF	12,100	MAR 89	MAR 90
211-152	B-2 ADD TO AND ALTER COMPOSITE REPAIR FACILITY	LS	5,700	MAR 89	SEP 90
211-254	CONSOLIDATED FUEL CONTROL TEST FACILITY/LAND ACQUISITION	LS	13,600	MAY 85	AUG 90
610-287	SYSTEMS ENGINEERING FACILITY	4,450 SF	650	MAR 89	JUN 90
610-711	LOGISTICAL SYSTEMS OPERATIONS CENTER/LAND ACQUISITION	LS	13,200	MAR 89	JUL 90
813-231	UPGRADE ELECTRICAL DISTRIBUTION SYSTEM	LS	3,500	MAR 89	JUL 90
880-232	B-2 ADD TO HANGAR FIRE PROTECTION SYSTEM	LS	3,600	SEP 88	SEP 89
880-232	AWACS AIRCRAFT FIRE PROTECTION	LS	2,750	NOV 85	JUL 90
		TOTAL:	55,100		

9a. Future Projects: Included in the Following Program (FY 92)

217-742	COMBAT COMMUNICATIONS SQUADRON OPERATIONS FACILITY	41,500 SF	4,100
610-287	ACQUISITION OPERATIONS FACILITY	21,800 SF	3,050
841-166	UPGRADE WATER SUPPLY, STORAGE AND DISTRIBUTION SYSTEM	LS	3,300
		TOTAL:	10,450

9b. Future Projects: Typical Planned Next Three Years:

141-764	INTEGRATION SUPPORT FACILITY AND LAND ACQUISITION	52,000 SF	8,700
217-742	COMBAT COMMUNICATIONS POWER/ REF READINESS FACILITY	36,500	3,600
218-868	ADD TO AND ALTER PRECISION MEASUREMENT LABORATORY	11,200 SF	480
441-758	DEPOT ENGINE STORAGE FACILITY	145,000 SF	10,800
610-243	GROUP OPERATIONS FACILITY	47,100 SF	5,000

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION TINKER AIR FORCE BASE, OKLAHOMA	4. COMMAND AIR FORCE LOGISTICS COMMAND	5. AREA CONST COST INDEX 0.87

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of										
b. End FY 19										

7. INVENTORY DATA ($000)

a. Total Acreage:
b. Inventory Total As Of:
c. Authorization Not Yet In Inventory:
d. Authorization Requested In This Program:
e. Authorization Included In Following Program:
f. Planned In Next Three Program Years:
g. Remaining Deficiency:
h. Grand Total:

9b. Future Projects: Typical Planned Next Three Years:

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL

10. Mission or Major Functions: Includes an Air Logistics Center responsible for logistics management and support for B-52, KC-135, and A-7D aircraft, air-ground missile systems and aircraft engines. Provides depot level maintenance on above systems plus the E-3A (AWACS) aircraft. Technology Repair Center for aircraft air-driven hydraulic/pneumatic systems, oxygen components, engines and automatic flight control instrumentation. Tenant Units: A Tactical Air Command E-3A (AWACS) wing; Air Force Reserve F-16 group.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION TINKER AIR FORCE BASE, OKLAHOMA	4. PROJECT TITLE B-2 ADD TO AND ALTER DEPOT MAINTENANCE HANGAR

5. PROGRAM ELEMENT 1.11.27	6. CATEGORY CODE 211-116	7. PROJECT NUMBER WWYK900040	8. PROJECT COST($000) 12,100

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
B-2 ADD TO AND ALTER DEPOT MAINTENANCE HANGAR	SF	84,000		4,886
ADDITION	SF	40,500	68	(2,754)
ALTERATION	SF	43,500	49	(2,132)
SUPPORTING FACILITIES				5,975
UTILITIES/COMMUNICATIONS SUPPORT	LS			(590)
SITE IMPROVEMENTS	LS			(450)
AIRCRAFT SUPPORT SYSTEMS	LS			(3,530)
PAVEMENTS	LS			(875)
RELOCATE FIRE STATION	LS			(530)
SUBTOTAL				10,861
CONTINGENCY (5%)				543
TOTAL CONTRACT COST				11,404
SUPERVISION, INSPECTION AND OVERHEAD (6%)				684
TOTAL REQUEST				12,088
TOTAL REQUEST (ROUNDED)				12,100

10. Description of Proposed Construction: Addition includes new hangar doors and a mezzanine for shops. Alteration includes an aircraft support system for compressed air, electricity, conditioned air and liquid coolant, a fire suppression system and other necessary support.

11. REQUIREMENT: 220,300 SF ADEQUATE: 136,300 SF
SUBSTANDARD: 43,500 SF

PROJECT: Add to and alter a B-2 depot maintenance hangar. (New Mission)

REQUIREMENT: An adequately configured and physically separated maintenance hangar to accommodate depot maintenance work loads in support of the B-2 bomber. A separate hangar facility is required to segregate this mission from other workloads. All phases of maintenance will be done within this facility.

CURRENT SITUATION: The proposed facility is the only one on base which satisfies the requirement for segregation from other workloads. Other facilities, although adequate for other missions, do not satisfy this requirement while providing the required number of maintenance bays.

IMPACT IF NOT PROVIDED: Without this facility, B-2 depot maintenance requirements cannot be accomplished.

ADDITIONAL: The requirement for this project was validated by the Joint Service Depot Maintenance Industrial Military Construction Review Panel in May 1988. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION TINKER AIR FORCE BASE, OKLAHOMA		
4. PROJECT TITLE B-2 ADD TO AND ALTER DEPOT MAINTENANCE HANGAR		5. PROJECT NUMBER WWYK900040

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 MAR 01
(b) Percent Complete as of Jan 90	90%
(c) Date 35% Designed	89 JUN 01
(d) Date Design Complete	90 MAR 01
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	1020
(b) All Other Design Costs	
(c) Total	1020
(d) Contract	816
(e) In-house	204
(4) Construction Start	91 JAN

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION TINKER AIR FORCE BASE, OKLAHOMA	4. PROJECT TITLE B-2 ADD TO AND ALTER COMPOSITE REPAIR FACILITY

5. PROGRAM ELEMENT 1.11.27	6. CATEGORY CODE 211-152	7. PROJECT NUMBER WWYK900041	8. PROJECT COST($000) 5,700

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
B-2 ADD TO AND ALTER COMPOSITE REPAIR FACILITY	LS			2,724
ADDITION	SF	44,000	58	(2,552)
ALTERATION	LS			(172)
SUPPORTING FACILITIES				2,370
UTILITIES	LS			(180)
PAVEMENTS	LS			(85)
SITE IMPROVEMENTS/DEMOLITION	LS			(125)
REPLACE MAINTENANCE SHOP	SF	33,500	58	(1,945)
COMMUNICATIONS SUPPORT	LS			(35)
SUBTOTAL				5,094
CONTINGENCY (5%)				255
TOTAL CONTRACT COST				5,349
SUPERVISION, INSPECTION AND OVERHEAD (6%)				321
TOTAL REQUEST				5,670
TOTAL REQUEST (ROUNDED)				5,700

10. Description of Proposed Construction: Single story concrete, steel and masonry addition with environmental control rooms, shops, curing room and oven drying area. Alteration includes partitions around existing shop areas. Air Conditioning: 50 Tons.

11. REQUIREMENT: 125,000 SF ADEQUATE: 70,500 SFSUBSTANDARD: 10,500 SF

PROJECT: Add to and alter a B-2 composite repair facility. (New Mission)

REQUIREMENT: An adequate, secure facility to accommodate major and minor repair of nonmetallic aircraft components in support of depot level maintenance of the B-2 bomber and other modern aircraft. Unique inspection and repair requirements of current and future aircraft will be needed with the increasing use of nonmetallic compounds. Contemporary aircraft surfaces also use these compounds, including fiberglass, graphite, boron and kevlar fibers. Normal sheet metal repair techniques and machinery cannot be used.

CURRENT SITUATION: A composite repair facility was sized for the B-1B work load in addition to current requirements. It is not large enough to accommodate the large workload associated with the B-2. There is no other space on the base where this work can be accomplished. This project will provide space to support the B-2 workload.

IMPACT IF NOT PROVIDED: Workload would have to be contracted out and more importantly, responsiveness and quality control would be compromised; the return of B-2 aircraft to SAC units would be delayed.

ADDITIONAL: The requirement for this project was validated by the Joint Service Depot Maintenance Industrial Military Construction Review Panel in May 1988. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

DD FORM 1391, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION TINKER AIR FORCE BASE, OKLAHOMA		
4. PROJECT TITLE B-2 ADD TO AND ALTER COMPOSITE REPAIR FACILITY		5. PROJECT NUMBER WWYK900041

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 MAR 01
(b) Percent Complete as of Jan 90	90%
(c) Date 35% Designed	89 JUN 01
(d) Date Design Complete	90 SEP 01
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	473
(b) All Other Design Costs	
(c) Total	473
(d) Contract	378
(e) In-house	95
(4) Construction Start	91 JAN

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION TINKER AIR FORCE BASE, OKLAHOMA	4. PROJECT TITLE CONSOLIDATED FUEL CONTROL TEST FACILITY/LAND ACQUISITION

5. PROGRAM ELEMENT 9.12.15	6. CATEGORY CODE 211-254	7. PROJECT NUMBER WWYK800270	8. PROJECT COST($000) 13,600

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
CONSOLIDATED FUEL CONTROL TEST FACILITY/LAND ACQUISITION	LS			7,265
FUEL CONTROL TEST FACILITY	SF	63,500	110	(6,985)
LAND ACQUISITION	AC	14	20,000	(280)
SUPPORTING FACILITIES				4,925
UTILITIES	LS			(1,500)
PAVEMENTS	LS			(460)
SITE IMPROVEMENTS	LS			(315)
COMPRESSED AIR/VACUUM SYSTEMS	LS			(450)
PROCESS COOLING SYSTEM	LS			(2,200)
SUBTOTAL				12,190
CONTINGENCY (5%)				610
TOTAL CONTRACT COST				12,800
SUPERVISION, INSPECTION AND OVERHEAD (6%)				768
TOTAL REQUEST				13,568
TOTAL REQUEST (ROUNDED)				13,600
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(8,000)

10. Description of Proposed Construction: A single story steel frame and masonry structure, concrete slabs and grade beams, industrial waste lines and necessary utilities, parking and road access. Replace buildings in way of construction. Areas include administrative, testing and support areas, and 14 acres of land.

Air Conditioning: 400 Tons.

11. REQUIREMENT: 63,500 SF ADEQUATE: 0 SUBSTANDARD: 72,600 SF

PROJECT: Construct a consolidated fuel control test facility and acquire 14 acres of land. (Current Mission)

REQUIREMENT: Safe and energy efficient environmentally controlled areas are needed to conduct testing of the various fuel control assemblies required for first line aircraft. Test stations must have multiple handling capabilities to allow rapid interchange of equipment. Extensive fire protection is mandatory due to the need for use of volitile fuels in the testing of components and systems.

CURRENT SITUATION: The present shop areas are small, cramped and over 40 years old. Electrical and mechanical systems have been so modified over the years that unknown terminals and multiple circuits abound, thus preventing effective energy consumption control. Some of the areas don't have needed fire protection systems, adequate lighting, or proper ventilation. Bearing walls throughout the complex prevent efficient shop equipment layout and the fuel accessories shop is remotely located from the test stands. In addition, the test stands can only handle a single item, causing unnecessary expense for additional stands and limiting the efficient grouping of similar items to be tested. This project will result in an annual savings of nearly $10 million and will amortize in less than three years.

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION TINKER AIR FORCE BASE, OKLAHOMA		
4. PROJECT TITLE CONSOLIDATED FUEL CONTROL TEST FACILITY/LAND ACQUISITION		5. PROJECT NUMBER WWYK800270

IMPACT IF NOT PROVIDED: Continued inefficient operation with no capacity for additional workload or surge requirements. Projected monitary savings will not be realized.

ADDITIONAL: The requirement for this project was validated by the Joint Service Depot Maintenance Industrial Military Construction Review Panel. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION TINKER AIR FORCE BASE, OKLAHOMA		
4. PROJECT TITLE CONSOLIDATED FUEL CONTROL TEST FACILITY		5. PROJECT NUMBER WWYK800270

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	85 MAY 01
(b) Percent Complete as of Jan 90	35%
(c) Date 35% Designed	85 SEP 27
(d) Date Design Complete	90 AUG 01
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	
(b) All Other Design Costs	1474
(c) Total	1474
(d) Contract	1120
(e) In-house	354
(4) Construction Start	91 MAR

b. Equipment associated with this project will be provided from other appropriations:

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
EQUIPMENT TO SUPPORT 6 TEST POSITIONS	3400	1991/92	8000

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION TINKER AIR FORCE BASE, OKLAHOMA	4. PROJECT TITLE LOGISTICAL SYSTEMS OPERATIONS CENTER/LAND ACQUISITION

5. PROGRAM ELEMENT 7.11.11	6. CATEGORY CODE 610-711	7. PROJECT NUMBER WWYK900035	8. PROJECT COST($000) 13,200

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
LOGISTICAL SYSTEMS OPERATIONS CENTER/LAND ACQUISITION	LS			8,715
LOGISTICAL SYSTEMS OPERATIONS CENTER	SF	95,000	87	(8,265)
LAND ACQUISITION	AC	10	45,000	(450)
SUPPORTING FACILITIES				3,230
UTILITIES	LS			(1,200)
PAVEMENTS	LS			(320)
SITE IMPROVEMENTS/DEMOLITION	LS			(955)
COMMUNICATIONS SUPPORT	LS			(420)
FIRE PROTECTION	LS			(335)
SUBTOTAL				11,945
CONTINGENCY (5%)				597
TOTAL CONTRACT COST				12,542
SUPERVISION, INSPECTION AND OVERHEAD (6%)				753
TOTAL REQUEST				13,295
TOTAL REQUEST (ROUNDED)				13,200
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(1,700)

10. Description of Proposed Construction: Concrete foundation and floor slab, steel frame, masonry structure with TEMPEST security and uninterruptible power supply. Includes pre-wired work stations, computer room, tape vault, storage and support space Purchase 10 acres of land. Air Conditioning: 560 Tons.

11. REQUIREMENT: 133,260 LS ADEQUATE: 38,260 LS SUBSTANDARD: 68,200 LS

PROJECT: Construct a logistical systems operations center and purchase ten acres of land. (Current Mission)

REQUIREMENT: A modern, efficient facility to provide physical and electronic protection of high value computers and data systems and to provide adequate space for support personnel and equipment. This facility is essential to consolidate information systems functions and protect them from the high risk of fire, sabotage, environmental/power fluctuations and failures, as well as natural and wartime disasters as enumerated in GAO report to Congress, "Federal Managers Need to Provide Better Protection for American Data Processing Facilities" (FMSD-76-40, 10 May 1976).

CURRENT SITUATION: Presently, computers are dispersed within separate areas in two buildings. One computer function is located outside the primary operations area in a converted motor pool facility built in 1944. Three computers are housed in this area, seriously impacting system integrity, maintainability and security. The primary operations area is housed in the administrative portion of the main Air Logistics Center aircraft maintenance building. This presents a constant threat of fire due to the proximity of hazardous materials and increases the risk of electrical/environmental disruption due to non-dedicated backup systems. The dispersed operations coupled with a shortage of adequately sized and configured space has resulted in degradation of the logistics support

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION TINKER AIR FORCE BASE, OKLAHOMA		
4. PROJECT TITLE LOGISTICAL SYSTEMS OPERATIONS CENTER/LAND ACQUISITION		5. PROJECT NUMBER WWYK900035

mission. This project will provide a new facility to correct these deficiencies and permit the vacated space to be used to satisfy other depot maintenance activity space requirements.
IMPACT IF NOT PROVIDED: The Oklahoma Air Logistics Center is responsible for primary mission support of critical weapon systems such as B1-B, E-3A, KC-10, B-52, KC-135, ALCM, SRAM, and E-4B. Any level of destruction or disruption of the computing capability would seriously impair the ability to produce, repair, ship and track depot material to worldwide locations.
ADDITIONAL: An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost efficient over the life of the project. This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION TINKER AIR FORCE BASE, OKLAHOMA		
4. PROJECT TITLE LOGISTICAL SYSTEMS OPERATIONS CENTER/LAND ACQUISITION		5. PROJECT NUMBER WWYK900035

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 MAR 01
(b) Percent Complete as of Jan 90	50%
(c) Date 35% Designed	89 JUL 01
(d) Date Design Complete	90 JUL 01
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	800
(b) All Other Design Costs	124
(c) Total	924
(d) Contract	800
(e) In-house	124
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations:

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
COMPUTER/COMPUTER SUPPORT EQUIPMENT	3080	91	1700

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION TINKER AIR FORCE BASE, OKLAHOMA	4. PROJECT TITLE UPGRADE ELECTRICAL DISTRIBUTION SYSTEM

5. PROGRAM ELEMENT 7.28.96	6. CATEGORY CODE 813-231	7. PROJECT NUMBER WWYK910011	8. PROJECT COST($000) 3,500

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
UPGRADE ELECTRICAL DISTRIBUTION SYSTEM	LS			3,000
SUPPORTING FACILITIES				150
SITE IMPROVEMENT/DEMOLITION	LS			(150)
SUBTOTAL				3,150
CONTINGENCY (5%)				158
TOTAL CONTRACT COST				3,308
SUPERVISION, INSPECTION AND OVERHEAD (6%)				198
TOTAL REQUEST				3,506
TOTAL REQUEST (ROUNDED)				3,500

10. Description of Proposed Construction: Electrical distribution lines and substation, upgrade existing transformer, distribution switchgear, substation connectors and feeder circuits, and necessary support.

11. REQUIREMENT: As required.

PROJECT: Upgrade electrical distribution system. (Current Mission)

REQUIREMENT: Adequate and reliable electrical power to support critical mission work loads at this Air Logistics Center, including maintenance of A-7, B-1B, B-52, E-3A and KC-135 aircraft and worldwide distribution of supplies and materials. Additional power is required in the aircraft maintenance area to meet current and projected increased electrical power demands and to increase system redundancy to improve reliability. Tie lines between three existing substations and the new substation are required for energy security and load transfer capability.

CURRENT SITUATION: Currently, Tinker AFB has three substations located in the aircraft maintenance area, the warehousing area and the housing/recreational area. The aircraft maintenance substation contains two transformers which are 67% loaded so that neither can be taken off-line for maintenance without cutting power to some mission critical operation. This situation will become worse with the completion of several new facilities already approved or planned for this area. Sufficient system redundancy does not exist to prevent mission disruption in the event of scheduled or unscheduled power curtailment.

IMPACT IF NOT PROVIDED: A loss or deficiency of electrical power will reflect a corresponding decrease in logistics productivity. Such a loss will have far-reaching impacts on the missions supported by this center.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION TINKER AIR FORCE BASE, OKLAHOMA		
4. PROJECT TITLE UPGRADE ELECTRICAL DISTRIBUTION SYSTEM		5. PROJECT NUMBER WWYK910011

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 MAR 01
(b) Percent Complete as of Jan 90	60%
(c) Date 35% Designed	89 JUL 01
(d) Date Design Complete	90 JUL 01
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	293
(b) All Other Design Costs	
(c) Total	293
(d) Contract	234
(e) In-house	59
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION TINKER AIR FORCE BASE, OKLAHOMA		4. PROJECT TITLE AWACS AIRCRAFT FIRE PROTECTION	
5. PROGRAM ELEMENT 2.75.96	6. CATEGORY CODE 880-232	7. PROJECT NUMBER WWYK870037	8. PROJECT COST($000) 2,750

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
AWACS AIRCRAFT FIRE PROTECTION	LS			2,168
SUPPORTING FACILITIES				310
UTILITIES	LS			(95)
PAVEMENTS	LS			(100)
SITE IMPROVEMENTS	LS			(115)
SUBTOTAL				2,478
CONTINGENCY (5%)				124
TOTAL CONTRACT COST				2,602
SUPERVISION, INSPECTION AND OVERHEAD (6%)				156
TOTAL REQUEST				2,758
TOTAL REQUEST (ROUNDED)				2,750

10. Description of Proposed Construction: Construct fire retardant walls, install fire protection systems and other necessary support.

11. REQUIREMENT: As required.
PROJECT: Provides aircraft fire protection in an existing Airborne Warning and Control System (AWACS) hangar. (Current Mission)
REQUIREMENT: An adequate fire protection system is required in an AWACS hangar to safely allow maintenance on fueled aircraft. Provide protection against loss of life and aircraft.
CURRENT SITUATION: The existing four dock maintenance hanger is currently used by AWACS and Air Logistics Center maintenance divisions, each having two docks. Two docks used by the AWACS are adequately protected by fire systems. The remaining two docks, used for depot level maintenance, are not protected. Depot level maintenance functions will be relocated upon completion of a new hanger which is under construction. Afterwards, all four docks will be used for AWACS intermediate maintenance. However, the two docks lack fire protection systems. The delay in early suppression of a fire could result in injuries, loss of life and destruction of high value Air Force resources. Total value of aircraft and equipment protected by this project is approximately $269,000,000.
IMPACT IF NOT PROVIDED: Potential for fire damage to valuable Air Force property/mission aircraft and increased potential for loss of life will continue. Loss of facilities and contents could result in serious operational impacts to the Air Force.
ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

DD FORM 1391, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION TINKER AIR FORCE BASE, OKLAHOMA		
4. PROJECT TITLE AWACS AIRCRAFT FIRE PROTECTION		5. PROJECT NUMBER WWYK870037

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	85 NOV 04
(b) Percent Complete as of Jan 90	60%
(c) Date 35% Designed	86 APR 10
(d) Date Design Complete	90 JUL 01
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	143
(b) All Other Design Costs	16
(c) Total	159
(d) Contract	108
(e) In-house	51
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION TINKER AIR FORCE BASE, OKLAHOMA	4. PROJECT TITLE B-2 ADD TO HANGAR FIRE PROTECTION SYSTEM

5. PROGRAM ELEMENT 1.11.27	6. CATEGORY CODE 880-232	7. PROJECT NUMBER WWYK900043	8. PROJECT COST($000) 3,600

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
B-2 ADD TO HANGAR FIRE PROTECTION SYSTEM	LS			1,638
SUPPORTING FACILITIES				1,450
UTILITIES	LS			(725)
PAVEMENTS	LS			(325)
SITE IMPROVEMENTS	LS			(400)
SUBTOTAL				3,088
CONTINGENCY (10%)				309
TOTAL CONTRACT COST				3,397
SUPERVISION, INSPECTION AND OVERHEAD (6%)				204
TOTAL REQUEST				3,601
TOTAL REQUEST (ROUNDED)				3,600

10. Description of Proposed Construction: Modify one dock within existing hangar to provide a fire protection system. Includes trench drain, vapor tight electrical wiring and other necessary support.

11. REQUIREMENT: As required.

PROJECT: Add to fire protection system for a depot maintenance hangar. (New Mission)

REQUIREMENT: A fire protection system to provide full coverage of the hangar bay and aircraft during maintenance of fueled aircraft. Depot maintenance on fueled aircraft such as B-52, KC-135, E-3A and A-7 needs to be performed in a facility with adequate fire suppression to reduce the potential for loss of valuable aircraft, facilities and personnel.

CURRENT SITUATION: Workloads on existing mission aircraft must be relocated from an existing hangar to accommodate new B-2 workload. The facility to be vacated is the only existing facility suitable for the B-2 workload. The proposed facility is currently equipped with a water sprinkler system, which is not adequate for work on fueled aircraft. This project will provide the necessary system additions to allow this facility to accommodate the displaced aircraft.

IMPACT IF NOT PROVIDED: Current mission aircraft would not be adequately protected against fire during depot maintenance. Alternatively, some depot maintenance workloads for B-2 aircraft could not be accomplished at Tinker AFB.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

DD FORM 1391, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION TINKER AIR FORCE BASE, OKLAHOMA		
4. PROJECT TITLE B-2 ADD TO HANGAR FIRE PROTECTION SYSTEM		5. PROJECT NUMBER WWYK900043

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 SEP 09
(b) Percent Complete as of Jan 90	100%
(c) Date 35% Designed	89 MAR 01
(d) Date Design Complete	89 SEP 01
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	195
(b) All Other Design Costs	120
(c) Total	315
(d) Contract	215
(e) In-house	100
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION VANCE AIR FORCE BASE, OKLAHOMA	4. COMMAND AIR TRAINING COMMAND	5. AREA CONST COST INDEX 0.92

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 89	414	399	116	355				1	3	1,288
b. End FY 1995	419	407	115	335				1	3	1,280

7. INVENTORY DATA ($000)

a. Total Acreage: (4,400)	
b. Inventory Total As Of: (30 SEP 89)	67,269
c. Authorization Not Yet In Inventory:	7,990
d. Authorization Requested In This Program:	400
e. Authorization Included In Following Program: (FY 92)	600
f. Planned In Next Three Program Years:	9,750
g. Remaining Deficiency:	0
h. Grand Total:	86,009

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
171-212	ADD TO AND ALTER FLIGHT SIMULATOR	LS	400	MAY 89	MAR 90
		TOTAL:	400		

9a. Future Projects: Included in the Following Program (FY 92)

171-213	ADD TO AND ALTER SPECIALIZED UPT SQUADRON OPERATIONS FAC	5,100 SF	600
		TOTAL:	600

9b. Future Projects: Typical Planned Next Three Years:

211-177	SMALL ACFT MAINTENANCE DOCK	53,000 SF	5,800
214-425	VEHICLE MAINTENANCE COMPLEX	34,400 SF	3,950

10. Mission or Major Functions: A flying training wing which conducts classroom and flying training required to develop proficiency of undergraduate pilots in T-37 and T-38 aircraft.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION CHARLESTON AIR FORCE BASE, SOUTH CAROLINA	4. COMMAND MILITARY AIRLIFT COMMAND	5. AREA CONST COST INDEX 0.89

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 89	504	3545	1227				69	209	4	5,558
b. End FY 1995	504	3515	1205				69	209	4	5,506

7. INVENTORY DATA ($000)

a. Total Acreage: (6,235)	
b. Inventory Total As Of: (30 SEP 89)	127,356
c. Authorization Not Yet In Inventory:	23,180
d. Authorization Requested In This Program:	14,090
e. Authorization Included In Following Program: (FY 92)	5,100
f. Planned In Next Three Program Years:	10,310
g. Remaining Deficiency:	0
h. Grand Total:	180,036

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
130-835	SECURITY POLICE OPERATIONS FACILITY	15,500 SF	1,550	JUN 88	MAY 89
141-232	PARACHUTE DRYING TOWER	550 SF	500	APR 88	APR 89
141-453	COMMAND POST/BASE OPERATIONS FACILITY	20,800 SF	2,250	OCT 88	AUG 89
211-000	C-17 ALTER AIRCRAFT MAINTENANCE FACILITIES	LS	7,900	MAR 89	MAR 90
211-157	C-17 ALTER ENGINE INSPECTION AND REPAIR FACILITY	7,000 SF	840	MAR 89	MAR 90
610-121	VEHICLE OPERATIONS FACILITY	10,700 SF	1,050	OCT 88	JUN 89
		TOTAL:	14,090		

9a. Future Projects: Included in the Following Program (FY 92)

130-142	FIRE/CRASH RESCUE STATION	14,000 SF	2,350
740-674	ADD TO AND ALTER PHYSICAL FITNESS CENTER	27,600 SF	2,750
		TOTAL:	5,100

9b. Future Projects: Typical Planned Next Three Years:

432-283		6,500 SF	930
610-249	COMPTROLLER FACILITY	17,100 SF	1,850
730-773		13,200 SF	2,050
811-149		3,000 SF	730
880-000	ALTER FIRE & OTHER ALARM SYSTEMS	LS	550

10. Mission or Major Functions: Support of two military airlift wings with C-141 aircraft, one active and one reserve associate, a fighter interceptor group and a joint use runway. The first operational base of the new C-17 aircraft.

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION CHARLESTON AIR FORCE BASE, SOUTH CAROLINA	4. COMMAND MILITARY AIRLIFT COMMAND	5. AREA CONST COST INDEX 0.89

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of										
b. End FY 19										

7. INVENTORY DATA ($000)

a. Total Acreage:
b. Inventory Total As Of:
c. Authorization Not Yet In Inventory:
d. Authorization Requested In This Program:
e. Authorization Included In Following Program:
f. Planned In Next Three Program Years:
g. Remaining Deficiency:
h. Grand Total:

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION CHARLESTON AIR FORCE BASE, SOUTH CAROLINA	4. PROJECT TITLE SECURITY POLICE OPERATIONS FACILITY

5. PROGRAM ELEMENT 4.18.96	6. CATEGORY CODE 130-835	7. PROJECT NUMBER DKFX903003	8. PROJECT COST($000) 1,550

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
SECURITY POLICE OPERATIONS FACILITY	SF	15,500	80	1,240
SUPPORTING FACILITIES				165
UTILITIES	LS			(55)
PAVEMENTS	LS			(55)
SITE IMPROVEMENTS	LS			(55)
SUBTOTAL				1,405
CONTINGENCY (5%)				70
TOTAL CONTRACT COST				1,475
SUPERVISION, INSPECTION AND OVERHEAD (6%)				89
TOTAL REQUEST				1,564
TOTAL REQUEST (ROUNDED)				1,550

10. Description of Proposed Construction: Concrete foundation and floor slab with masonry construction using steel framing and sloped roof. Includes armory, training offices, classrooms, cells, interview rooms, learning research center, pre-wired workstations and other necessary support. Air Conditioning: 30 Tons.

11. REQUIREMENT: 16,025 SF ADEQUATE: 525 SF SUBSTANDARD: 13,231 SF

PROJECT: Construct a security police operations facility. (Current Mission)

REQUIREMENT: A security police facility to accommodate the control elements, law enforcement, base security and combat arms training and maintenance (CATM) functions. This includes office space, a work center containing a communications console for contact with law enforcement and base security functions, confinement space, secure rooms for storage of weapons and ammunition, related law enforcement equipment, training and maintenance areas, and the combat arms function.

CURRENT SITUATION: Security police functions are currently located in seven buildings scattered throughout the base. The distance separating these buildings makes routine interface, essential coordination, and rapid response impossible. Equipment worth $450,000, which supports the Air Base Ground Defense (ABGD) mission, is stored in a twenty-five year old building outside the base perimeter. Since the ABGD mission is to provide perimeter security during national/international incidents, quick access to the equipment is essential. Additionally, this facility has experienced several burglaries. The existing facilities located on base are over 30 years old and in poor condition with bowed ceilings and crumbling, termite infested baseboards. None is of sufficient size and configuration to support the security police operations function, nor do

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION CHARLESTON AIR FORCE BASE, SOUTH CAROLINA		
4. PROJECT TITLE SECURITY POLICE OPERATIONS FACILITY		5. PROJECT NUMBER DKFX903003

they provide the privacy and security necessary. Five buildings will be demolished as a result of this project.

IMPACT IF NOT PROVIDED: The mission will be accomplished with less than optimum effectiveness and efficiency. There will also continue to be the risk of compromise of private proceedings and pilferage of the secure storage, base weapons and ammunition.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION CHARLESTON AIR FORCE BASE, SOUTH CAROLINA		
4. PROJECT TITLE SECURITY POLICE OPERATIONS FACILITY		5. PROJECT NUMBER DKFX903003

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 JUN 13
(b) Percent Complete as of Jan 90	100%
(c) Date 35% Designed	88 OCT 30
(d) Date Design Complete	89 MAY 15
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	112
(b) All Other Design Costs	60
(c) Total	172
(d) Contract	128
(e) In-house	44
(4) Construction Start	91 APR

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION CHARLESTON AIR FORCE BASE, SOUTH CAROLINA	4. PROJECT TITLE COMMAND POST/BASE OPERATIONS FACILITY

5. PROGRAM ELEMENT 4.18.96	6. CATEGORY CODE 141-453	7. PROJECT NUMBER DKFX903002	8. PROJECT COST($000) 2,250

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
COMMAND POST/BASE OPERATIONS FACILITY	SF	20,800	82	1,706
SUPPORTING FACILITIES				315
UTILITIES	LS			(95)
PAVEMENTS	LS			(125)
SITE IMPROVEMENT	LS			(95)
SUBTOTAL				2,021
CONTINGENCY (5%)				101
TOTAL CONTRACT COST				2,122
SUPERVISION, INSPECTION AND OVERHEAD (6%)				127
TOTAL REQUEST				2,249
TOTAL REQUEST (ROUNDED)				2,250

10. Description of Proposed Construction: Multi-story facility with reinforced concrete footings and floor slab, masonry walls, sloped roof, interior security partitions and other necessary support.
Air Conditioning: 72 Tons.

11. REQUIREMENT: 20,800 SF ADEQUATE: 0 SUBSTANDARD: 8,942 SF

PROJECT: Construct a command post/base operations facility. (Current Mission)

REQUIREMENT: An adequate facility for base flight operations and command post operations. It includes space for the base operations staff, flight training, flight planning, intelligence, weather, crisis action team, and command and control functions.

CURRENT SITUATION: Base operations occupies only 57 percent of the space required, and the command post operates in 31 percent of its required space. Both functions are crowded into one facility which cannot be economically expanded or upgraded. Base operations has one small flight planning room that can accommodate only one flight crew at a time. This situation was acceptable when the facility was constructed 20 years ago. Due to increased requirements including added missions in support of South and Central America, crews must either wait in line or mission plan in hallways, on counter tops, or on the floor. Increasing numbers of air drop and special operations missions require additional maps and associated publications which now exceed the available storage space. The present facility does not have adequate space in which to install new communications and security equipment. Modern equipment is also available for the weather and intelligence functions; however, it would require twice the currently available space to install and implement these systems. There is no room for the Crisis Action Team. Although NORAD

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION CHARLESTON AIR FORCE BASE, SOUTH CAROLINA		
4. PROJECT TITLE COMMAND POST/BASE OPERATIONS FACILITY		5. PROJECT NUMBER DKFX903002

fighters are launched from this base, there is no room for their equipment or communications representative.

IMPACT IF NOT PROVIDED: The inability of operations personnel to quickly collect, analyze and digest data will continue to adversely affect the responsiveness of air crews. Without the space required to house climatically controlled state-of-the-art equipment, they will be unable to effectively perform their day-to-day missions, react during periods of national unrest, and/or conduct special missions.

ADDITIONAL: An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost efficient over the life of the project. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION CHARLESTON AIR FORCE BASE, SOUTH CAROLINA		
4. PROJECT TITLE COMMAND POST/BASE OPERATIONS FACILITY		5. PROJECT NUMBER DKFX903002

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 OCT 22
(b) Percent Complete as of Jan 90	100%
(c) Date 35% Designed	89 JAN 30
(d) Date Design Complete	89 AUG 15
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	170
(b) All Other Design Costs	42
(c) Total	212
(d) Contract	160
(e) In-house	52
(4) Construction Start	91 JAN

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION CHARLESTON AIR FORCE BASE, SOUTH CAROLINA	4. PROJECT TITLE C-17 ALTER AIRCRAFT MAINTENANCE FACILITIES

5. PROGRAM ELEMENT 4.11.30	6. CATEGORY CODE 211-000	7. PROJECT NUMBER VDYD913500	8. PROJECT COST($000) 7,900

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
C-17 ALTER AIRCRAFT MAINTENANCE FACILITIES	LS			4,950
AIRCRAFT MAINTENANCE HANGAR/DOCKS	LS			(3,000)
FUEL CELL MAINTENANCE DOCK	LS			(1,500)
MAINTENANCE SHOPS	LS			(450)
SUPPORTING FACILITIES				1,835
UTILITIES	LS			(1,750)
PAVEMENTS	LS			(35)
SITE IMPROVEMENTS	LS			(50)
SUBTOTAL				6,785
CONTINGENCY (10%)				679
TOTAL CONTRACT COST				7,464
SUPERVISION, INSPECTION AND OVERHEAD (6%)				448
TOTAL REQUEST				7,912
TOTAL REQUEST (ROUNDED)				7,900

10. Description of Proposed Construction: All mechanical, electrical and structural work required to alter 8 buildings, including a fuel cell maintenance dock, an aircraft maintenance hangar, 4 aircraft nose docks, an avionics shop and a wheel and tire shop. Includes hangar doors, fire protection systems, utilities and all other necessary support.

11. REQUIREMENT: As required.

PROJECT: Alter eight C-17 aircraft maintenance facilities. (New Mission)

REQUIREMENT: Adequate aircraft maintenance facilities to support essential maintenance needs of the C-17 aircraft beddown. Hangar and dock facilities must be altered to accommodate physical size of the aircraft. The fuel cell maintenance dock must include systems for mechanical ventilation, fume sensing, alarms, fire suppression, and washdown of drainage trenches. Additional environmental controls are required in the Avionics Shop to support C-17 avionics maintenance operation, and additional wheel and tire shop space is required for C-17 buildup equipment and tire storage.

CURRENT SITUATION: The physical dimensions of the new C-17 aircraft require that several existing aircraft maintenance facilities be altered. The existing fuel cell dock cannot accommodate the nose section of a C-17 aircraft. Existing hangar doors must be modified to close around the tail of the new C-17. The present shops do not provide sufficient space or environmental controls required to support C-17 maintenance activities.

IMPACT IF NOT PROVIDED: Adequate fuel cell maintenance, aircraft maintenance, and avionics maintenance cannot be performed on the new C-17 aircraft at this base.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

DD FORM 1391, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION

CHARLESTON AIR FORCE BASE, SOUTH CAROLINA

4. PROJECT TITLE C-17 ALTER AIRCRAFT MAINTENANCE FACILITIES	5. PROJECT NUMBER VDYD913500

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 MAR 01
(b) Percent Complete as of Jan 90	65%
(c) Date 35% Designed	89 JUL 15
(d) Date Design Complete	90 MAR 15
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	175
(b) All Other Design Costs	30
(c) Total	205
(d) Contract	175
(e) In-house	30
(4) Construction Start	91 APR

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION CHARLESTON AIR FORCE BASE, SOUTH CAROLINA	4. PROJECT TITLE VEHICLE OPERATIONS FACILITY

5. PROGRAM ELEMENT 4.18.96	6. CATEGORY CODE 610-121	7. PROJECT NUMBER DKFX913005	8. PROJECT COST($000) 1,050

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
VEHICLE OPERATIONS FACILITY	SF	10,700	77	824
SUPPORTING FACILITIES				110
UTILITIES	LS			(35)
SITE IMPROVEMENTS	LS			(30)
PAVEMENTS	LS			(45)
SUBTOTAL				934
CONTINGENCY (5%)				47
TOTAL CONTRACT COST				981
SUPERVISION, INSPECTION AND OVERHEAD (6%)				59
TOTAL REQUEST				1,040
TOTAL REQUEST (ROUNDED)				1,050

10. Description of Proposed Construction: Reinforced concrete foundation and floor slab, concrete footing, concrete block walls, and other necessary support. Areas include vehicle operations, orderly room, drivers' school, and plans and programs. Air Conditioning: 30 Tons.

11. REQUIREMENT: 11,030 SF ADEQUATE: 330 SF SUBSTANDARD: 9,027 SF

PROJECT: Construct a vehicle operations facility. (Current Mission)

REQUIREMENT: An adequate facility for the base vehicle operations function to manage assigned base vehicles. Activities include vehicle dispatch, fleet management and drivers' training and evaluation.

CURRENT SITUATION: Vehicle operations currently operates from four facilities. One facility is 34 years old and is badly deteriorated having numerous documented safety hazards. A risk assessment code of 3 has been assigned this facility. Besides being in poor condition, it is poorly configured. The vehicle operations supervisor works in a converted closet. Fleet management has five people, two computers, and various other equipment in a 300 SF room. The building's noisy air conditioning unit also occupies an entire corner of this room. The plans and programs function is located in a salvaged trailer, and the squadron's command section is located in the vehicle maintenance building. The technical order library and the training area are in an unair-conditioned and unheated area of the maintenance shop. The drivers' school is conducted in a facility over a half mile from the primary operations building. One building will be disposed of as a result of this project.

IMPACT IF NOT PROVIDED: Vehicle operations will continue to operate inefficiently, with a separation of functions, in an unsafe environment.

ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION

CHARLESTON AIR FORCE BASE, SOUTH CAROLINA

4. PROJECT TITLE VEHICLE OPERATIONS FACILITY	5. PROJECT NUMBER DKFX913005

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 OCT 25
(b) Percent Complete as of Jan 90	100%
(c) Date 35% Designed	89 MAR 01
(d) Date Design Complete	89 JUN 30
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	90
(b) All Other Design Costs	26
(c) Total	116
(d) Contract	81
(e) In-house	35
(4) Construction Start	91 APR

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION ELLSWORTH AIR FORCE BASE, SOUTH DAKOTA	4. COMMAND STRATEGIC AIR COMMAND	5. AREA CONST COST INDEX 1.03

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 89	1008	5825	616							7,449
b. End FY 1995	1059	5792	612							7,463

7. INVENTORY DATA ($000)

a. Total Acreage: (5,794)	
b. Inventory Total As Of: (30 SEP 89)	246,613
c. Authorization Not Yet In Inventory:	137,024
d. Authorization Requested In This Program:	13,150
e. Authorization Included In Following Program: (FY 92)	2,210
f. Planned In Next Three Program Years:	23,900
g. Remaining Deficiency:	0
h. Grand Total:	422,897

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	CMPL
812-223	UPGRADE ELECTRICAL DISTRIBUTION SYSTEM	LS	13,150	NOV 88	JUN 90
		TOTAL:	13,150		

9a. Future Projects: Included in the Following Program (FY 92)

812-926	UPGRADE WEAPONS STORAGE AREA LIGHTING	LS	700
841-427	WATER STORAGE TANK	1,000 KG	810
872-247	ALERT TAXIWAY BARRIER	LS	700
		TOTAL:	2,210

9b. Future Projects: Typical Planned Next Three Years:

141-461	USAF COMMAND POST	10,000 SF	5,700
211-157	B-1B-- ENGINE STORAGE FACILITY	20,000 SF	1,800
721-312	DORMITORIES	500 PN	10,400
740-884	CHILD DEVELOPMENT CENTER ADDITION	17,000 SF	1,700
841-161	ADD TO AND ALTER WATER SUPPLY SYSTEM	45,200 LF	4,300

10. Mission or Major Functions: Active mission support activities include an air division, a heavy bombardment operational wing including two B-1B squadrons, a KC-135 squadron, and an EC-135 airborne command and control squadron which all maintain an alert force; an operational Minutemen intercontinental ballistic missile wing, an aerospace rescue and recovery squadron. Location for the Strategic Training Center to manage the Strategic Training Range network and serve as the staging location for SAC flying mission to the Strategic Training Range Complex.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION ELLSWORTH AIR FORCE BASE, SOUTH DAKOTA	4. PROJECT TITLE UPGRADE ELECTRICAL DISTRIBUTION SYSTEM

5. PROGRAM ELEMENT 1.18.96	6. CATEGORY CODE 812-223	7. PROJECT NUMBER FXBM880018	8. PROJECT COST($000) 13,150

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
UPGRADE ELECTRICAL DISTRIBUTION SYSTEM	LS			10,783
SUPPORTING FACILITIES				495
PAVEMENTS	LS			(20)
COMMUNICATIONS	LS			(80)
DEMOLITION	LS			(395)
SUBTOTAL				11,278
CONTINGENCY (10%)				1,128
TOTAL CONTRACT COST				12,406
SUPERVISION, INSPECTION AND OVERHEAD (6%)				744
TOTAL REQUEST				13,150
TOTAL REQUEST (ROUNDED)				13,150

10. Description of Proposed Construction: Replace existing overhead and underground primary electrical distribution system with a state-of-the-art electrical distribution system. Replace the main electrical substation and two secondary substations. Replace all transformers. Provide power factor correction to increase the efficiency of the distribution system.

11. REQUIREMENT: As required.
PROJECT: Upgrade electrical distribution system. (Current Mission)
REQUIREMENT: An electrical distribution system which can provide adequate and reliable electrical power to base facilities.
CURRENT SITUATION: The existing electrical distribution system is over 30 years old and has exceeded its design life. New construction on base is pushing total power requirements to near the maximum capacity of the existing system. Currently, the main substation has little room for normal electrical load growth. The loss of a single transformer will require up to 50% of the base to operate without electrical power. The existing distribution system is outdated and operates on an uncommon voltage. Therefore, standby transformers are not readily available. Locating a replacement transformer in an emergency situation will be a long and expensive process. Another problem which exists is the poor condition of the substations. The protective relays are obsolete requiring parts to be special ordered with a delivery time of 12 to 18 months.
IMPACT IF NOT PROVIDED: The existing distribution system has grown piecemeal since initial construction and is currently operating near full capacity. As a result, growth is impossible and reliability is questionable. With the existing and new critical missions at Ellsworth, loss of power due to insufficient capacities is unacceptable and would

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION ELLSWORTH AIR FORCE BASE, SOUTH DAKOTA		
4. PROJECT TITLE UPGRADE ELECTRICAL DISTRIBUTION SYSTEM		5. PROJECT NUMBER FXBM880018

seriously impair base operations and mission support.

ADDITIONAL: An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost efficient over the life of the project. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION ELLSWORTH AIR FORCE BASE, SOUTH DAKOTA		
4. PROJECT TITLE UPGRADE ELECTRICAL DISTRIBUTION SYSTEM		5. PROJECT NUMBER FXBM880018

12. SUPPLEMENTAL DATA:

c ~~a.~~ Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 NOV 15
(b) Percent Complete as of Jan 90	60%
(c) Date 35% Designed	89 MAY 01
(d) Date Design Complete	90 JUN 15
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	779
(b) All Other Design Costs	85
(c) Total	864
(d) Contract	605
(e) In-house	259
(4) Construction Start	91 JAN

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION ARNOLD ENGINEERING DEVELOPMENT CENTER, TENNESSEE	4. COMMAND AIR FORCE SYSTEMS COMMAND	5. AREA CONST COST INDEX 0.92

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 89	92	62	213							367
b. End FY 1995	90	62	216							368

7. INVENTORY DATA ($000)

a. Total Acreage: (39,081)	
b. Inventory Total As Of: (30 SEP 89)	872,135
c. Authorization Not Yet In Inventory:	20,300
d. Authorization Requested In This Program:	109,300
e. Authorization Included In Following Program: (FY 92)	5,450
f. Planned In Next Three Program Years:	67,440
g. Remaining Deficiency:	0
h. Grand Total:	1,074,625

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE		COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
390-614	LARGE ROCKET TEST FACILITY, (J6) PHASE III		LS	109,300	NOV 86	OCT 88
		TOTAL:		109,300		

9a. Future Projects: Included in the Following Program (FY 92)

390-614	ADD TO AND ALTER FUEL SYSTEMS		LS	2,400
800-000	ALTER COOLING WATER SYSTEM		LS	3,050
		TOTAL:		5,450

9b. Future Projects: Typical Planned Next Three Years:

390-129	HEATER DEVELOPMENT FACILITY		LS	58,000
442-758	AUTOMATED SUPPLY SYSTEM WAREHOUSE	40,500	SF	2,100
730-142	IMPROVE FIRE STATION	2,800	SF	2,600
740-669	PHYSICAL FITNESS TRAINING FAC	10,376	SF	1,500
813-231	IMPROVE ELECTRIC SUBSTATION	161	KV	1,100

10. Mission or Major Functions: The national engineering development center responsible for management, command, control and direction of major research and development for aircraft, missiles, spacecraft, jet and rocket propulsion systems. Directs contractor operation of the major wind tunnel complexes.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION ARNOLD ENGINEERING DEVELOPMENT CENTER, TENNESSEE	4. PROJECT TITLE LARGE ROCKET TEST FACILITY, (J6) PHASE III

5. PROGRAM ELEMENT 6.47.55	6. CATEGORY CODE 390-614	7. PROJECT NUMBER ANZY870198C	8. PROJECT COST($000) 109,300

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
LARGE ROCKET TEST FACILITY, (J6) PHASE III	LS			181,583
TEST CELL AND ANCILLARY FACILITIES	LS			(177,025)
DATA INPUT/LOCAL CONTROL CENTER	SF	2,300	320	(736)
ADD TO ROCKET CELL CONTROL FACILITY	SF	3,800	340	(1,292)
ROCKET PREPARATION FACILITY	SF	4,600	550	(2,530)
SUPPORTING FACILITIES				21,100
UTILITIES	LS			(18,670)
SITE IMPROVEMENTS	LS			(2,430)
SUBTOTAL				202,683
CONTINGENCY (5%)				10,134
TOTAL CONTRACT COST				212,817
SUPERVISION, INSPECTION AND OVERHEAD (6%)				12,769
TOTAL REQUEST				225,586
TOTAL REQUEST (ROUNDED)				226,000
$183M AUTHORIZED IN FY 89, ADDITIONAL $43M AUTHORIZED IN FY 90. PRIOR APPROPRIATION (89/90)				(116,000)
THIS REQUEST (PHASE III)				(109,300)

10. Description of Proposed Construction: Horizontal steel test cell on heavily reinforced concrete foundation, rocket exhaust diffuser, steam ejector and diffuser, saturation cooler, dehumidification cooler, auxiliary steam system, nitrogen inerting system, temperature conditioning system, exhaust ducting, heavily steel reinforced barricade and seismic mass. PHASE III OF A THREE YEAR CONSTRUCTION AUTHORIZATION.

11. REQUIREMENT: As required.
PROJECT: Construct a Large Rocket Test Facility (J-6), ancillary facilities, and support buildings. (New Mission)
REQUIREMENT: An adequate facility for safely testing large solid-propellant rocket motors containing high energy detonable propellants. The facility must test-fire motors in a simulated flight-altitude environment and make very accurate thrust measurements of motor performance and responses to changes in thrust to simulate the flight trajectory.
CURRENT SITUATION: No existing facilities are designed to test large solid-propellant rocket motors. The largest national facility, civilian or military, for testing solid-propellant rocket motors at simulated altitude conditions is at Arnold. This facility, built over 20 years ago, is not sited for testing the explosive propellants prevalent today. Testing the smaller explosive propellant motors is allowed only after evacuating two square miles of laboratories and shops to prevent personnel injury. Significant risk to adjacent facilities is accepted, justified by the large benefit of the tests. Testing larger explosive propellant motors has not been allowed, resulting in high flight test failure rates and increased system development costs. Also, the thrust capability is limited to 125,000 pounds. The present Peacekeeper second-stage motor

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION ARNOLD ENGINEERING DEVELOPMENT CENTER, TENNESSEE		
4. PROJECT TITLE LARGE ROCKET TEST FACILITY, (J6) PHASE III		5. PROJECT NUMBER ANZY870198C

develops significantly more thrust. Because of this deficiency, a vertically oriented liquid-propellant rocket test cell was modified at Arnold in 1980 to test this motor and meet Peacekeeper development milestones, but with greatly degraded thrust measurement accuracy and with a high safety risk. Although propellant in this motor is not explosive, it is hazardous, as demonstrated in November 1982 when four men died removing unspent propellant from the deep vertical cell. This modified unique liquid-propellant test cell is needed in FY 92-93 for liquid-propellant rocket development testing. It cannot be used simultaneously for the liquid-propellant testing and for continued large solid-propellant rocket motor tests.

IMPACT IF NOT PROVIDED: Continued testing of extremely hazardous propellants in existing facilities poses grave risk to both life and property at Arnold. An accident like the one in November 1982 could occur again, as well as total destruction of other unique test facilities at Arnold from an explosion. Inability to adequately test large motors for aging and surveillance or to research and develop large new motors to achieve improvements in performance will result in higher technical risk, longer schedules, and higher system development and operational costs.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION

ARNOLD ENGINEERING DEVELOPMENT CENTER, TENNESSEE

4. PROJECT TITLE LARGE ROCKET TEST FACILITY, (J6) PHASE III	5. PROJECT NUMBER ANZY870198C

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	86 NOV 20
(b) Percent Complete as of Jan 90	100%
(c) Date 35% Designed	87 JUL 21
(d) Date Design Complete	88 OCT 15
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	610
(b) All Other Design Costs	4836
(c) Total	5446
(d) Contract	779
(e) In-house	4667
(4) Construction Start	89 MAY

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION BROOKS AIR FORCE BASE, TEXAS	4. COMMAND AIR FORCE SYSTEMS COMMAND	5. AREA CONST COST INDEX 0.88

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 88	507	1014	1075	438	230	47				3,311
b. End FY 1994	497	1027	1253	603	306	83				3,769

7. INVENTORY DATA ($000)

a. Total Acreage: (1,310)	
b. Inventory Total As Of: (30 SEP 89)	67,490
c. Authorization Not Yet In Inventory:	15,800
d. Authorization Requested In This Program:	4,100
e. Authorization Included In Following Program: (FY 92)	8,400
f. Planned In Next Three Program Years:	5,120
g. Remaining Deficiency:	0
h. Grand Total:	100,910

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	CMPL
219-944	BASE ENGINEER COMPLEX	51,200 SF	4,100	JUL 85	MAY 87
		TOTAL:	4,100		

9a. Future Projects: Included in the Following Program (FY 92)

171-152	CONSOLIDATED ACADEMIC COMPLEX	83,500 SF	8,400
		TOTAL:	8,400

9b. Future Projects: Typical Planned Next Three Years:

130-835	SECURITY POLICE OPERATIONS	7,314 SF	1,600
171-356	ADD TO TECH & PROFESSIONAL LIBRARY	8,000 SF	1,350
319-443	ADD TO AND ALTER EQUIPMENT RESEARCH TEST	2,500 SF	470
610-286	NAMED/NUMBERED DIVISION HQS	20,000 SF	1,700

10. Mission or Major Functions: An aerospace Medical Division supervises research and development activities in the field of aerospace biotechnology for Air Force Systems Command; the Air Force Human Resource Laboratory conducts research on man's interface with aerospace operations; the USAF School of Aerospace Medicine is concerned with applied aspects of aeromedical research; the USAF Occupational and Environmental Health Laboratory studies the effects of working in the Air Force Environment; the Air Force Drug Test Laboratory, and an electronic security squadron.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION BROOKS AIR FORCE BASE, TEXAS	4. PROJECT TITLE BASE ENGINEER COMPLEX

5. PROGRAM ELEMENT 7.28.06	6. CATEGORY CODE 219-944	7. PROJECT NUMBER CNBC870901	8. PROJECT COST($000) 4,100

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
BASE ENGINEER COMPLEX	SF	51,200		3,142
BASE MAINTENANCE SHOP	SF	14,000	88	(1,232)
BASE COVERED STORAGE FACILITY	SF	21,700	28	(608)
BASE ENGINEER ADMINISTRATION	SF	15,500	84	(1,302)
SUPPORTING FACILITIES				550
PAVEMENTS	LS			(145)
UTILITIES	LS			(145)
SITE IMPROVEMENTS	LS			(260)
SUBTOTAL				3,692
CONTINGENCY (5%)				185
TOTAL CONTRACT COST				3,877
SUPERVISION, INSPECTION AND OVERHEAD (6%)				233
TOTAL REQUEST				4,110
TOTAL REQUEST (ROUNDED)				4,100

10. Description of Proposed Construction: Concrete walls, floor slabs and foundations, fire protection, and an Energy Management and Control System. Includes all shops, covered storage, control center, pre-wired workstations and other necessary support. Air Conditioning: 70 Tons.

11. REQUIREMENT: 51,200 SF ADEQUATE: 0 SUBSTANDARD: 41,388 SF
PROJECT: Construct a base engineer complex. (Current Mission)
REQUIREMENT: Adequate facilities in which to oversee real property maintenance activities. A facility is required to accommodate the operation of a base engineer squadron and the associated overall growth of base personnel by over 300 persons. This project supports the congressional mandate to dispose of World War II wooden buildings.
CURRENT SITUATION: Base engineer activities are currently located in two small structures and 12 substandard, temporary wooden facilities separated by the main base road. The majority of the facilities were constructed during the World War II era, with one being constructed in 1928. The facilities average 42 years in age and have far exceeded their useful lives. The facilities are improperly sized for present day operations, difficult to heat and cool, energy inefficient, uneconomical to maintain and fire hazards. The current facilities are severely inadequate in providing space for engineers, inspectors, controllers and others. If the facilities are not replaced, extensive maintenance and repair will be required to maintain them in a marginally acceptable condition. To continue to spend money on these substandard facilities would be impractical and not prudent management of financial resources. Upon completion of this project, fourteen substandard facilities will be demolished.
IMPACT IF NOT PROVIDED: If this project is deferred, personnel will

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION BROOKS AIR FORCE BASE, TEXAS		
4. PROJECT TITLE BASE ENGINEER COMPLEX		5. PROJECT NUMBER CNBC870901

continue to operate in undersized substandard World War II wooden structures scattered around the base. The ability of the base engineer to maintain adequate facilities will be seriously impacted.

ADDITIONAL: An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost efficient over the life of the project. This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION BROOKS AIR FORCE BASE, TEXAS		
4. PROJECT TITLE BASE ENGINEER COMPLEX		5. PROJECT NUMBER CNBC870901

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	85 JUL 03
(b) Percent Complete as of Jan 90	100%
(c) Date 35% Designed	85 OCT 17
(d) Date Design Complete	87 MAY 22
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	420
(b) All Other Design Costs	
(c) Total	420
(d) Contract	232
(e) In-house	188
(4) Construction Start	90 NOV

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION CARSWELL AIR FORCE BASE, TEXAS	4. COMMAND STRATEGIC AIR COMMAND	5. AREA CONST COST INDEX 0.91

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 89	739	4063	880							5,682
b. End FY 1995	738	3992	810							5,540

7. INVENTORY DATA ($000)

a. Total Acreage: (3,416)	
b. Inventory Total As Of: (30 SEP 89)	257,424
c. Authorization Not Yet In Inventory:	12,300
d. Authorization Requested In This Program:	12,616
e. Authorization Included In Following Program: (FY 92)	1,500
f. Planned In Next Three Program Years:	28,580
g. Remaining Deficiency:	0
h. Grand Total:	312,420

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
121-122	HYDRANT FUELING SYSTEM	LS	10,700	APR 86	MAY 90
812-926	AIRCRAFT PARKING APRON LIGHTING	LS	1,350	JAN 88	MAR 90
813-231	ELECTRIC SUBSTATION ACQUISITION (PIF)	LS	566		
		TOTAL:	12,616		

9a. Future Projects: Included in the Following Program (FY 92)

218-852	SURVIVAL EQUIPMENT SHOP	11,500 SF	1,500
		TOTAL:	1,500

9b. Future Projects: Typical Planned Next Three Years:

121-111	POL OPERATIONS FACILITY ADDITION	2,250 SF	370
141-753	LIFE SUPPORT FACILITY	9,460 SF	1,250
141-753	UPGRADE SQUADRON OPERATIONS		660
149-962	CONTROL TOWER	1 EA	2,400
610-287	ALTER CLASSIFIED STORAGE FACILITY	LS	2,000

10. Mission or Major Functions: Active mission support activities include ; a heavy bombardment operational wing including two B-52 squadron and one KC-135 squadron which maintain a bomber and tanker alert force; and an Air Force Reserve F-4 and F-16 tenant tactical fighter wing which performs training to mainta in combat readiness.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION CARSWELL AIR FORCE BASE, TEXAS	4. PROJECT TITLE HYDRANT FUELING SYSTEM

5. PROGRAM ELEMENT 1.18.96	6. CATEGORY CODE 121-122	7. PROJECT NUMBER DDPF869902	8. PROJECT COST($000) 10,700

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
HYDRANT FUELING SYSTEM	LS			9,018
HYDRANT FUELING SYSTEM	LS			(7,905)
CONTROL HOUSE AND EQUIPMENT	SF	650	450	(293)
FUEL STORAGE	BL	20,000	41	(820)
SUPPORTING FACILITIES				595
UTILITIES	LS			(210)
PAVEMENTS	LS			(210)
DEMOLITION	LS			(175)
SUBTOTAL				9,613
CONTINGENCY (5%)				481
TOTAL CONTRACT COST				10,094
SUPERVISION, INSPECTION AND OVERHEAD (6%)				606
TOTAL REQUEST				10,700
TOTAL REQUEST (ROUNDED)				10,700

10. Description of Proposed Construction: New fuel pits, above-ground jet fuel storage tank, distribution piping, pumphouse and other necessary support.

11. REQUIREMENT: As required.
PROJECT: Construct a hydrant fueling system. (Current Mission)
REQUIREMENT: An adequate refueling/defueling system with a constant pressure demand capability to reduce aircraft turnaround times, aircraft towing for fuel support, related flightline safety hazards and system maintenance costs. Project must also eliminate vapor emissions which exceed state environmental standards for volatile organic compounds.
CURRENT SITUATION: Existing low-flow (350-450 GPM) system is 30 years old, deteriorating and incompatible with the aircraft parking plan. Maintenance costs are excessive, and the potential for fuel leaks creates an unacceptable environmental risk. Twelve aircraft parking positions do not have refueling capability. In addition, 4 of 25 existing refuel pits are unusable because they are in the bomber alert area. Multiple truck servicing of large fuel loads is time consuming, resource intensive, and more hazardous. Truck refuel flow rates of 450 GPM and small capacity operating storage tanks continually create crisis situations during peak workloads. Carswell AFB is currently operating under a compliance agreement to resolve a violation for exceeding state environmental standards. The underground operating storage tanks are not equipped with vapor recovery systems to handle emissions exceeding the standards when higher summer fuel temperatures are reached. This agreement requires that the base complete construction of this project to resolve the problem.
IMPACT IF NOT PROVIDED: Lengthy generation times, costly towing operations and repairs to the existing aircraft refueling system will

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION CARSWELL AIR FORCE BASE, TEXAS		
4. PROJECT TITLE HYDRANT FUELING SYSTEM		5. PROJECT NUMBER DDPF869902

continue with an adverse impact on aircraft operations. This results in increased environmental hazards and violations.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION CARSWELL AIR FORCE BASE, TEXAS		
4. PROJECT TITLE HYDRANT FUELING SYSTEM		5. PROJECT NUMBER DDPF869902

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	86 APR 15
(b) Percent Complete as of Jan 90	65%
(c) Date 35% Designed	87 DEC 10
(d) Date Design Complete	90 MAY 26
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	560
(b) All Other Design Costs	88
(c) Total	648
(d) Contract	
(e) In-house	648
(4) Construction Start	91 MAR

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION CARSWELL AIR FORCE BASE, TEXAS	4. PROJECT TITLE AIRCRAFT PARKING APRON LIGHTING

5. PROGRAM ELEMENT 1.18.96	6. CATEGORY CODE 812-926	7. PROJECT NUMBER DDPF889902	8. PROJECT COST($000) 1,350

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
AIRCRAFT PARKING APRON LIGHTING	LS			693
SUPPORTING FACILITIES				530
UTILITIES	LS			(425)
SITE IMPROVEMENTS	LS			(105)
SUBTOTAL				1,223
CONTINGENCY (5%)				61
TOTAL CONTRACT COST				1,284
SUPERVISION, INSPECTION AND OVERHEAD (6%)				77
TOTAL REQUEST				1,361
TOTAL REQUEST (ROUNDED)				1,350

10. Description of Proposed Construction: Construct reinforced concrete foundations for and install forty floodlight towers on the aircraft parking apron. Includes 400-watt high pressure sodium floodlights and other necessary support.

11. REQUIREMENT: As required.

PROJECT: Construct foundations and install forty new floodlight towers and necessary utility support on the aircraft parking apron. (Current Mission)

REQUIREMENT: Floodlighting to facilitate work of night aircraft maintenance crews, to increase safety of personnel during night aircraft movements, and to enhance the security of aircraft resources.

CURRENT SITUATION: The flightline maintenance and parking areas do not have sufficient lighting for aircraft maintenance or security surveillance. The camouflage paint scheme on B-52 aircraft has increased the need for adequate ramp lighting. The possibility of government-owned vehicles running into aircraft at night is significantly increased due to inadequate ramp lighting. Portable light carts are used to provide illumination at night, but they are expensive to operate, do not provide adequate lighting, and are not always available. Aircraft towing and taxiing under current poor lighting conditions are unsafe and performing maintenance is difficult.

IMPACT IF NOT PROVIDED: Without this project, the accident potential is great. Maintenance, safety, and security will continue to be adversely affected if portable light carts continue to be the only lighting available.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION CARSWELL AIR FORCE BASE, TEXAS		
4. PROJECT TITLE AIRCRAFT PARKING APRON LIGHTING		5. PROJECT NUMBER DDPF889902

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 JAN 17
(b) Percent Complete as of Jan 90	95%
(c) Date 35% Designed	88 OCT 01
(d) Date Design Complete	90 MAR 01
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	74
(b) All Other Design Costs	10
(c) Total	84
(d) Contract	59
(e) In-house	25
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION DYESS AIR FORCE BASE, TEXAS	4. COMMAND STRATEGIC AIR COMMAND	5. AREA CONST COST INDEX 0.96

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 89	799	4573	436							5,808
b. End FY 1995	786	4458	435							5,679

7. INVENTORY DATA ($000)

a. Total Acreage: (6,432)	
b. Inventory Total As Of: (30 SEP 89)	195,073
c. Authorization Not Yet In Inventory:	64,510
d. Authorization Requested In This Program:	7,550
e. Authorization Included In Following Program: (FY 92)	72,180
f. Planned In Next Three Program Years:	8,350
g. Remaining Deficiency:	0
h. Grand Total:	347,663

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
136-661	RUNWAY APPROACH LIGHTING	3,000 LF	1,050	JAN 89	MAY 90
211-159	AIRCRAFT CORROSION CONTROL FACILITY	23,800 SF	4,100	JAN 86	SEP 88
214-425	ADD TO AND ALTER VEHICLE MAINTENANCE SHOP	39,200 SF	2,400	FEB 88	SEP 90
		TOTAL:	7,550		

9a. Future Projects: Included in the Following Program (FY 92)

130-142	FIRE/CRASH RESCUE STATION	3,750 SF	770
141-177	PEACEKEEPER-GARRISON FACILITIES	LS	52,000
141-911	PEACEKEEPER-MISSILE OPERATIONS FACILITY	24,000 SF	3,300
171-211	B-1B-ADD TO AND ALTER COMBAT CREW TRAINING FACILITY	12,200 SF	2,300
171-625	PEACEKEEPER-TRAINING TRAIN SHELTER	30,000 SF	3,100
211-179	ALTER FUEL SYSTEMS MAINTENANCE HANGAR	27,160 SF	440
212-000	PKR/RG INTEGRATED MAINTENANCE FACILITY	15,000 SF	2,250
217-722	PEACEKEEPER-ADAL COMMUNICATION MAINTENANCE FACILITY	6,000 SF	880
442-758	ADD TO AND ALTER BASE SUPPLY AND EQUIPMENT WAREHOUSE	12,800 SF	840
860-000	ROAD, RAIL AND UTILITIES	LS	6,300
		TOTAL:	72,180

9b. Future Projects: Typical Planned Next Three Years:

130-142	FIRE STATION	2,924 SF	900
721-312	ALTER DORMITORY	LS	1,800
721-312	ALTER DORMITARY	25,261 SF	1,800
740-884	CHILD DEVELOPMENT CENTER	20,400 SF	2,750
872-247	ALERT TAXIWAY BARRIER	LS	1,100

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE

3. INSTALLATION AND LOCATION DYESS AIR FORCE BASE, TEXAS	4. COMMAND STRATEGIC AIR COMMAND	5. AREA CONST COST INDEX 0.96

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of										
b. End FY 19										

7. INVENTORY DATA ($000)

a. Total Acreage:
b. Inventory Total As Of:
c. Authorization Not Yet In Inventory:
d. Authorization Requested In This Program:
e. Authorization Included In Following Program:
f. Planned In Next Three Program Years:
g. Remaining Deficiency:
h. Grand Total:

10. Mission or Major Functions: Active mission support activities include ; heavy bombardment operational wing including two B-1B squadrons, one which performs combat crew training and one which will maintain an alert force; a KC-135 operational squadron which maintains a tanker alert force; and a Military Airlift Command operational tenant tactical airlift wing consisting of two C-130 squadrons.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION DYESS AIR FORCE BASE, TEXAS	4. PROJECT TITLE RUNWAY APPROACH LIGHTING

5. PROGRAM ELEMENT 1.18.96	6. CATEGORY CODE 136-661	7. PROJECT NUMBER FNWZ860011	8. PROJECT COST($000) 1,050

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
RUNWAY APPROACH LIGHTING	LF	3,000	250	750
SUPPORTING FACILITIES				185
SITE IMPROVEMENTS	LS			(150)
COMMUNICATIONS SUPPORT	LS			(20)
UTILITIES	LS			(15)
SUBTOTAL				935
CONTINGENCY (5%)				47
TOTAL CONTRACT COST				982
SUPERVISION, INSPECTION AND OVERHEAD (6%)				59
TOTAL REQUEST				1,041
TOTAL REQUEST (ROUNDED)				1,050

10. Description of Proposed Construction: Approach lighting system, lighting vault and other necessary support.

11. REQUIREMENT: 6,000 LF ADEQUATE: 3,000 LF SUBSTANDARD: 0

PROJECT: Construct an approach lighting system for the primary runway. (Current Mission)

REQUIREMENT: As SAC's training center for the B-1B, approximately 5,600 hours of flying time will be used annually in the training of 66 flight crews. An integral portion of that training involves the approach, transition to landing, and landing phases of flight. Proper training results in the formation of habit patterns which are essential for safe instrument approach. This must involve identification and use of the approach lights during the transition to landing.

CURRENT SITUATION: Runway 16 is used approximately 90% of the time due to wind direction. The only visual aid available for sighting the runway is the VASI (Visual Approach Slope Indicator), and this is unsafe. An approach lighting system is critical to aircraft recovery during conditions of poor visibility and at night. While meteorological data shows that Runway 34 (with approach lighting) is predominantly used during conditions of poor visibility, night flying remains primarily a Runway 16 operation. The Combat Crew Training Squadron (CCTS) requires 28% of their total training to take place during night conditions. Most importantly, the CCTS is charged with training the Command's entire contingent of B-1B aircrews. While IFR weather may not impose significant operational constraints at Dyess, it will at the three other operational B-1B bases for which the CCTS provides training.

IMPACT IF NOT PROVIDED: Without this project, training schedules will have to be adjusted to include periods when wind conditions allow use of

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION DYESS AIR FORCE BASE, TEXAS		
4. PROJECT TITLE RUNWAY APPROACH LIGHTING		5. PROJECT NUMBER FNWZ860011

Runway 34 and its approach lighting. Flight crews will be adversely affected by poor, incomplete and unsafe training.
ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION DYESS AIR FORCE BASE, TEXAS		
4. PROJECT TITLE RUNWAY APPROACH LIGHTING		5. PROJECT NUMBER FNWZ860011

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 JAN 15
(b) Percent Complete as of Jan 90	60%
(c) Date 35% Designed	89 JUL 31
(d) Date Design Complete	90 MAY 31
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	57
(b) All Other Design Costs	
(c) Total	57
(d) Contract	40
(e) In-house	17
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION DYESS AIR FORCE BASE, TEXAS	4. PROJECT TITLE AIRCRAFT CORROSION CONTROL FACILITY

5. PROGRAM ELEMENT 4.18.96	6. CATEGORY CODE 211-159	7. PROJECT NUMBER FNWZ860008	8. PROJECT COST($000) 4,100

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
AIRCRAFT CORROSION CONTROL FACILITY	SF	23,800	120	2,856
SUPPORTING FACILITIES				840
FIRE PROTECTION	LS			(190)
UTILITIES	LS			(540)
SITE IMPROVEMENTS	LS			(110)
SUBTOTAL				3,696
CONTINGENCY (5%)				185
TOTAL CONTRACT COST				3,881
SUPERVISION, INSPECTION AND OVERHEAD (6%)				233
TOTAL REQUEST				4,114
TOTAL REQUEST (ROUNDED)				4,100

10. Description of Proposed Construction: Reinforced concrete pier beam foundation, concrete floor slabs, structural steel frame, masonry walls, metal roof and siding and other necessary support.

11. REQUIREMENT: 50,800 SF ADEQUATE: 27,000 SF SUBSTANDARD: 0

PROJECT: Construct a corrosion control facility. (Current Mission)

REQUIREMENT: Adequate space in which C-130 aircraft and components can be completely enclosed. The space must meet all safety and health requirements to provide safe use of toxic chemicals and paint.

CURRENT SITUATION: There is no enclosed corrosion control facility on base for C-130 aircraft. Conducting successful corrosion control operations outside is very difficult because the action of the chemicals used is affected by extremes of weather. The chemicals dry too fast in the hot, dry or windy conditions common to this base, and incompletely rinsed chemicals are harmful to the aircraft. During the winter months when freezing temperatures prevent any outside washing, aircraft have been flown to McChord Air Force Base where a corrosion control facility is available. This is expensive and increases the time the aircraft are not available for operations.

IMPACT IF NOT PROVIDED: Inefficient corrosion control operations will continue to be performed outside, exposing personnel and aircraft to undue safety and health hazards, and delaying aircraft for mission operations.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION DYESS AIR FORCE BASE, TEXAS		
4. PROJECT TITLE AIRCRAFT CORROSION CONTROL FACILITY		5. PROJECT NUMBER FNWZ860008

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	86 JAN 30
(b) Percent Complete as of Jan 90	100%
(c) Date 35% Designed	86 JUL 23
(d) Date Design Complete	88 SEP 28
(2) Basis:	
(a) Standard or Definitive Design -	YES
(b) Where Design Was Most Recently Used -	LITTLE R
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	230
(b) All Other Design Costs	
(c) Total	230
(d) Contract	
(e) In-house	230
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION DYESS AIR FORCE BASE, TEXAS	4. PROJECT TITLE ADD TO AND ALTER VEHICLE MAINTENANCE SHOP

5. PROGRAM ELEMENT 1.18.96	6. CATEGORY CODE 214-425	7. PROJECT NUMBER FNWZ873002	8. PROJECT COST($000) 2,400

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ADD TO AND ALTER VEHICLE MAINTENANCE SHOP	SF	39,200		1,293
ADDITION	SF	17,000	63	(1,071)
ALTERATION	SF	22,200	10	(222)
SUPPORTING FACILITIES				760
UTILITIES	LS			(70)
SITE IMPROVEMENTS	LS			(200)
PAVEMENTS	LS			(400)
FIRE PROTECTION	LS			(40)
COMMUNICATIONS	LS			(50)
SUBTOTAL				2,053
CONTINGENCY (10%)				205
TOTAL CONTRACT COST				2,258
SUPERVISION, INSPECTION AND OVERHEAD (6%)				135
TOTAL REQUEST				2,393
TOTAL REQUEST (ROUNDED)				2,400

10. Description of Proposed Construction: Reinforced concrete foundations and floor slabs, masonry walls, steel columns and joists, metal decking, rigid insulation, built-up roofing. Additions include offices, double grease rack, and general vehicle repair. Includes fire protection in existing facility and additions, fence, parking, supporting site improvements, utilities and prewired workstations.
Air Conditioning: 20 Tons.

11. REQUIREMENT: 39,200 LS ADEQUATE: 0 SUBSTANDARD: 22,200 LS

PROJECT: Add to and alter the vehicle maintenance shop. (Current Mission)

REQUIREMENT: An addition to this facility is needed to provide space for 54 people to maintain the 643 vehicles now assigned. The floor space available was designed to maintain only 230 vehicles or 500 vehicle equivalents. Adequate fire protection is required in the existing facility as well as the additions.

CURRENT SITUATION: The Vehicle Maintenance Facility is not large enough to support its current requirement of 643 vehicles. There is insufficient space to provide storage for Bench Stock, Tool Crib, Test Equipment and Shop Equipment. There is no room for a chassis dynamometer which is required to test vehicle performance. Shop equipment is now crowded, making it difficult to remove or return items to normal storage locations. This requires moving many pieces of shop equipment to get to the one desired. Equipment is located wherever there is a vacant spot, not necessarily in the most efficient position for the mechanic. Vehicles are parked, at times, three deep to a stall when the weather is too cold to work outside. Larger pieces of equipment will not fit inside and they must be worked outside regardless of weather. In summer months many mechanics are forced to work outside where temperatures commonly reach 105

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION DYESS AIR FORCE BASE, TEXAS		
4. PROJECT TITLE ADD TO AND ALTER VEHICLE MAINTENANCE SHOP		5. PROJECT NUMBER FNWZ873002

to 110 degrees. With extreme heat, the technicians become less productive. On cold winter days when vehicles are double or triple parked, delays are encountered in moving vehicles in and out of the shop, increasing vehicle out-of-commission time.

IMPACT IF NOT PROVIDED: Cramped working space and marginal safety conditions will increase potential for accidents. High temperatures in the summer and cold temperatures in the winter will reduce worker efficiency.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION DYESS AIR FORCE BASE, TEXAS		
4. PROJECT TITLE ADD TO AND ALTER VEHICLE MAINTENANCE SHOP		5. PROJECT NUMBER FNWZ873002

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 FEB 09
(b) Percent Complete as of Jan 90	35%
(c) Date 35% Designed	88 OCT 25
(d) Date Design Complete	90 SEP 14
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	125
(b) All Other Design Costs	26
(c) Total	151
(d) Contract	
(e) In-house	151
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION GOODFELLOW AIR FORCE BASE, TEXAS	4. COMMAND AIR TRAINING COMMAND	5. AREA CONST COST INDEX 0.79

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 89	157	1326	401	367	554	10	15	891	2	3,723
b. End FY 1995	157	1342	401	335	554	10	15	891	2	3,707

7. INVENTORY DATA ($000)

a. Total Acreage: (1,136)	
b. Inventory Total As Of: (30 SEP 89)	64,126
c. Authorization Not Yet In Inventory:	36,160
d. Authorization Requested In This Program:	980
e. Authorization Included In Following Program: (FY 92)	1,850
f. Planned In Next Three Program Years:	9,250
g. Remaining Deficiency:	0
h. Grand Total:	112,366

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
130-835	SECURITY POLICE OPERATIONS FACILITY	10,000 SF	980	NOV 88	JUN 90
		TOTAL:	980		

9a. Future Projects: Included in the Following Program (FY 92)

610-281	CENTER COMMAND AND CONTROL COMPLEX	19,200 SF	1,850
		TOTAL:	1,850

9b. Future Projects: Typical Planned Next Three Years:

131-111	COMMUNICATIONS SUPPORT FACILITY	19,100 SF	3,300
610-249	WING SUPPORT FACILITY	23,700 SF	3,050
740-674		28,500 SF	2,900

10. Mission or Major Functions: A technical training center responsible for all cryptologic training provided to Air Force personnel and other Department of Defense agencies.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION KELLY AIR FORCE BASE, TEXAS	4. COMMAND AIR FORCE LOGISTICS COMMAND	5. AREA CONST COST INDEX 0.88

6. PERSONNEL	PERMANENT			STUDENTS			SUPPORTED			
STRENGTH	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 89	873	3626	18582						92	23,173
b. End FY 1995	875	3514	18495						92	22,976

7. INVENTORY DATA ($000)

a. Total Acreage: (4,706)	
b. Inventory Total As Of: (30 SEP 89)	287,915
c. Authorization Not Yet In Inventory:	91,399
d. Authorization Requested In This Program:	10,300
e. Authorization Included In Following Program: (FY 92)	10,000
f. Planned In Next Three Program Years:	108,280
g. Remaining Deficiency:	0
h. Grand Total:	507,894

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
141-000	AIR FORCE SERVICE INFORMATION AND NEWS CENTER FACILITY	40,400 SF	4,000	MAY 88	MAY 90
211-159	ADD TO AND ALTER DEPOT CORROSION CONTROL FACILITY	75,200 SF	6,300	APR 89	SEP 90
		TOTAL:	10,300		

9a. Future Projects: Included in the Following Program (FY 92)

610-675	ADD TO AND ALTER WEAPON SYSTEMS SUPPORT CENTER	100,000 SF	10,000
		TOTAL:	10,000

9b. Future Projects: Typical Planned Next Three Years:

141-763	TECHNICAL LABORATORY	50,000 SF	5,700
141-764	ADD TO AND ALTER C-17A INTEGRATION SUPPORT FACILITY	40,000 SF	5,100
211-152	C-17A ADVANCED COMPOSITES REPAIR FACILITY	85,000 SF	7,500
217-712	ALTER C-17A DEPOT AVIONICS FACILITY	23,000 SF	1,200
217-735	ELECTRONIC OVERHAUL/TEST FACILITY	52,000 SF	5,750

10. Mission or Major Functions: An Air Logistics Center responsible for management and support for C-5, C-9, F-5, T-37, and T-38 aircraft engines and aerospace fuels. Provides depot level maintenance on C-5 and B-52 aircraft, and aircraft engines. Technology Repair Center for both electronic and ground support equipment. Electronic Security Command Headquarters responsible for support for all USAF elements conducting command, control and communications measures. A reserve tactical airlift wing operating C-5 aircraft and an ANG tactical fighter group with F-16s.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION KELLY AIR FORCE BASE, TEXAS	4. PROJECT TITLE AIR FORCE SERVICE INFORMATION AND NEWS CENTER FACILITY

5. PROGRAM ELEMENT 9.12.12	6. CATEGORY CODE 141-000	7. PROJECT NUMBER MBPB902899	8. PROJECT COST($000) 4,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
AIR FORCE SERVICE INFORMATION AND NEWS CENTER FACILITY	SF	40,400	77	3,111
SUPPORTING FACILITIES				480
COMMUNICATIONS SUPPORT	LS			(30)
UTILITIES	LS			(50)
SITE IMPROVEMENTS	LS			(100)
PAVEMENTS	LS			(300)
SUBTOTAL				3,591
CONTINGENCY (5%)				180
TOTAL CONTRACT COST				3,771
SUPERVISION, INSPECTION AND OVERHEAD (6%)				226
TOTAL REQUEST				3,997
TOTAL REQUEST (ROUNDED)				4,000

10. Description of Proposed Construction: A steel frame facility with reinforced concrete slab foundation. Space includes radio/television control and studio areas, computer rooms, equipment maintenance rooms and a television production photo lab. Also includes loading dock, pre-wired workstations and other necessary support. Air Conditioning: 200 Tons.

11. REQUIREMENT: 40,400 SF ADEQUATE: 0 SUBSTANDARD: 40,036 SF

PROJECT: Construct an information services complex. (Current Mission)

REQUIREMENT: A facility with proper environmental controls to accommodate the technical equipment and personnel of the Headquarters Air Force Service Information and News Center (AFSINC). AFSINC missions include the Army and Air Force Hometown News Service, the Air Force Broadcasting Service and the Air Force Office of Youth Relations. The Center provides Air Force members and their families with information on Air Force and defense policies, people and activities. They produce Airman Magazine and Air Force Now films. The facility requires climate controlled storage and special rooms for mechanized mailing, photo processing, radio and TV production, and data processing.

CURRENT SITUATION: AFSINC functions are located in five separate WWII wood facilities which are energy inefficient, improperly configured, and expensive to maintain. These facilities do not provide the adequate environmental controls or specialized equipment rooms required for the creation and distribution of radio, television and printed products. AFSINC storage is in an old cold storage plant which has been condemned and which does not provide adequate protection from the elements. Numerous radio and television products have been destroyed due to inadequate environmental conditions.

IMPACT IF NOT PROVIDED: AFSINC functions will continue to operate from

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION KELLY AIR FORCE BASE, TEXAS		
4. PROJECT TITLE AIR FORCE SERVICE INFORMATION AND NEWS CENTER FACILITY		5. PROJECT NUMBER MBPB902899

five separate facilities with inadequate space impacting their mission and causing damage to specialized equipment and products.

ADDITIONAL: There is no criteria/scope in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION KELLY AIR FORCE BASE, TEXAS		
4. PROJECT TITLE AIR FORCE SERVICE INFORMATION AND NEWS CENTER FACILITY		5. PROJECT NUMBER MBPB902899

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 MAY 31
(b) Percent Complete as of Jan 90	65%
(c) Date 35% Designed	88 SEP 14
(d) Date Design Complete	90 MAY 31
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	321
(b) All Other Design Costs	28
(c) Total	349
(d) Contract	250
(e) In-house	99
(4) Construction Start	91 JAN

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION KELLY AIR FORCE BASE, TEXAS	4. PROJECT TITLE ADD TO AND ALTER DEPOT CORROSION CONTROL FACILITY

5. PROGRAM ELEMENT 7.11.11	6. CATEGORY CODE 211-159	7. PROJECT NUMBER MBPB921737	8. PROJECT COST($000) 6,300

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ADD TO AND ALTER DEPOT CORROSION CONTROL FACILITY	SF	75,200		3,870
ADDITION	SF	2,200	100	(220)
ALTERATION	SF	73,000	50	(3,650)
SUPPORTING FACILITIES				1,560
SITE IMPROVEMENTS	LS			(150)
UTILITIES	LS			(110)
COMMUNICATIONS SUPPORT	LS			(20)
ASBESTOS REMOVAL	LS			(330)
FIRE PROTECTION SYSTEM	LS			(950)
SUBTOTAL				5,430
CONTINGENCY (10%)				543
TOTAL CONTRACT COST				5,973
SUPERVISION, INSPECTION AND OVERHEAD (6%)				358
TOTAL REQUEST				6,331
TOTAL REQUEST (ROUNDED)				6,300
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(1,100)

10. Description of Proposed Construction: Replacement of inadequate lighting, modification of heating and ventilation system, installation of fire protection system and minor structural alterations; addition of a mezzanine and an external mechanical room.

11. REQUIREMENT: 162,500 SF ADEQUATE: 87,300 SF SUBSTANDARD: 73,000 SF

PROJECT: Add to and alter a depot corrosion control facility. (Current Mission)

REQUIREMENT: Renovation of the existing corrosion control facility to industry standards. Facility will allow corrosion control treatment (from touch-up to complete strip and repaint) of large aircraft (C-5, B-52) in conjunction with programmed depot maintenance. Adequate ventilation, lighting, temperature and humidity controls are mandatory to ensure complete coverage and proper paint adhesion. Productivity improvements can be achieved by installing a man lift system to reduce setup time and an approved fire protection system to permit touch up painting of fueled aircraft.

CURRENT SITUATION: The present facility is currently in use three shifts per day, seven days a week, which necessitates continual deferral of preventive maintenance on the facility and equipment. Approximately 40 percent of the time the existing facility cannot provide the proper temperature and humidity conditions necessary for long term paint adhesion. The ventilation system does not produce the required airflow as specified by OSHA, posing serious health and pollution problems. The inadequate fire protection system makes it necessary to defuel aircraft before painting. Portable work stands must be set up and removed for each aircraft processed. Existing lighting is insufficient for the camouflage paint schemes. When completed, a new corrosion control facility will be

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION KELLY AIR FORCE BASE,TEXAS		
4. PROJECT TITLE ADD TO AND ALTER DEPOT CORROSION CONTROL FACILITY		5. PROJECT NUMBER MBPB921737

used for paint removal using a dry stripping process. This alteration project will satisfy the total requirement and these two facilities will complement each other, with one stripping and the other applying new corrosion protection. Both are required to accommodate the C-5 workload. The cost of renovating this facility is less than half the replacement cost. In addition, contract corrosion control is not available for C-5 sized aircraft.

IMPACT IF NOT PROVIDED: Continued lost productivity due to uneven and insufficient air flow, inefficient work stands, poor lighting conditions, and the time required to defuel aircraft. Also, possible closure of the facility and subsequent loss of corrosion control capability is possible if the State revokes a "grandfather clause" allowing continued use of the facility without adequate ventilation.

ADDITIONAL: The requirement for this project was validated by the Joint Service Depot Maintenance Industrial Military Construction Review Panel in August 1987. An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost efficient over the life of the project. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION KELLY AIR FORCE BASE,TEXAS		
4. PROJECT TITLE ADD TO AND ALTER DEPOT CORROSION CONTROL FACILITY		5. PROJECT NUMBER MBPB921737

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 APR 01
(b) Percent Complete as of Jan 90	60%
(c) Date 35% Designed	89 JUN 01
(d) Date Design Complete	90 SEP 01
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	380
(b) All Other Design Costs	61
(c) Total	441
(d) Contract	380
(e) In-house	61
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations:

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
MAN LIFT EQUIPMENT	3080	91	1100

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION LACKLAND AIR FORCE BASE, TEXAS	4. COMMAND AIR TRAINING COMMAND	5. AREA CONST COST INDEX 0.88

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 89	1709	4530	2611	76	8655	24	11	216		17,832
b. End FY 1995	1743	4638	2679	83	10548	24	11	216		19,942

7. INVENTORY DATA ($000)

a. Total Acreage: (6,766)	
b. Inventory Total As Of: (30 SEP 89)	368,350
c. Authorization Not Yet In Inventory:	59,100
d. Authorization Requested In This Program:	22,500
e. Authorization Included In Following Program: (FY 92)	20,100
f. Planned In Next Three Program Years:	25,954
g. Remaining Deficiency:	0
h. Grand Total:	496,004

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
130-142	FIRE STATION	12,100 SF	1,350	MAR 89	AUG 90
219-944	BASE ENGINEER COMPLEX	85,700 SF	8,000	DEC 88	JUN 90
722-351	DINING FACILITY	23,000 SF	4,000	APR 87	JUL 90
832-266	UPGRADE SEWER SYSTEM	LS	5,000	DEC 88	JUN 90
851-147	BASE ROADS	LS	4,150	DEC 88	AUG 90
		TOTAL:	22,500		

9a. Future Projects: Included in the Following Program (FY 92)

171-833	CONSOLIDATED BMTS HEADQUARTERS AND ACADEMIC FACILITY	44,900 SF	5,000
610-249	TECHNICAL TRAINING WING SUPPORT COMPLEX	13,400 SF	1,950
610-281	TRAINING CENTER MANAGEMENT FACILITY	60,000 SF	7,100
721-312	ADD TO AND ALTER DORMITORY	1 EA	3,800
871-183	UPGRADE STORM DRAINAGE SYSTEM	LS	2,250
		TOTAL:	20,100

9b. Future Projects: Typical Planned Next Three Years:

171-617	TRAINING SERVICES SHOP	56,500 SF	5,300
171-621	ACADEMIC/INSTRUCTOR SCHOOL FACILITY	65,000 SF	5,500
214-425	VEHICLE MAINTENANCE FACILITY	16,000 SF	1,354
610-243	BASE CONTRACTING FACILITY	19,800 SF	2,750
721-312	DORMITORY	500 PN	7,700

10. Mission or Major Functions: Major activities include the AF Military Training Center, the principal center for initial processing of officer and enlisted personnel and for basic military training; a technical training wing for Air Force personnel in fields of security police and social actions; and the Wilford Hall Medical Center (AFSC) which services medical needs of area Department of Defense beneficiaries.

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION LACKLAND AIR FORCE BASE, TEXAS	4. COMMAND AIR TRAINING COMMAND	5. AREA CONST COST INDEX 0.88

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of										
b. End FY 19										

7. INVENTORY DATA ($000)

a. Total Acreage:
b. Inventory Total As Of:
c. Authorization Not Yet In Inventory:
d. Authorization Requested In This Program:
e. Authorization Included In Following Program:
f. Planned In Next Three Program Years:
g. Remaining Deficiency:
h. Grand Total:

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION LACKLAND AIR FORCE BASE, TEXAS	4. PROJECT TITLE FIRE STATION

5. PROGRAM ELEMENT 8.57.96	6. CATEGORY CODE 130-142	7. PROJECT NUMBER MPLS899015	8. PROJECT COST($000) 1,350

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
FIRE STATION	SF	12,100	82	992
SUPPORTING FACILITIES				225
SITE IMPROVEMENTS	LS			(85)
COMMUNICATIONS SUPPORT	LS			(30)
UTILITIES	LS			(55)
PAVEMENTS	LS			(55)
SUBTOTAL				1,217
CONTINGENCY (5%)				61
TOTAL CONTRACT COST				1,278
SUPERVISION, INSPECTION AND OVERHEAD (6%)				77
TOTAL REQUEST				1,355
TOTAL REQUEST (ROUNDED)				1,350

10. Description of Proposed Construction: Reinforced concrete foundation and floors, masonry walls and roof system. Includes vehicle stalls, offices, communication center, sleeping quarters, training rooms, kitchen, dining room, storage, utility rooms and all necessary support.
Air Conditioning: 30 Tons.

11. REQUIREMENT: 12,100 SF ADEQUATE: 0 SUBSTANDARD: 9,350 SF
PROJECT: Construct a base fire station. (Current Mission)
REQUIREMENT: An adequate facility to provide fire protection and fire fighting services for base facilities. The station will house all fire fighting equipment and crews, a central fire alarm system, command and control and crew standby quarters.
CURRENT SITUATION: The existing two World War II wood fire stations are too small to house all six assigned fire vehicles. The buildings are of insufficient configuration to properly accomplish the base fire fighting mission. The existing facilities are energy inefficient and require excessive resources to maintain. In addition, physically separating the vehicles and scattering personnel inhibits emergency response and poses serious hazards to life and safety. Two buildings will be demolished upon completion of this project.
IMPACT IF NOT PROVIDED: Adequate fire protection for Air Force facilities will not be provided, with the potential loss of Air Force lives and property. Maintenance costs of the existing facilities will continue to increase, and fire fighting effectiveness will be hampered by the lack of an adequate facility.
ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION LACKLAND AIR FORCE BASE, TEXAS		
4. PROJECT TITLE FIRE STATION		5. PROJECT NUMBER MPLS899015

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 MAR 03
(b) Percent Complete as of Jan 90	35%
(c) Date 35% Designed	89 SEP 15
(d) Date Design Complete	90 AUG 01
(2) Basis:	
(a) Standard or Definitive Design -	YES
(b) Where Design Was Most Recently Used -	GOODFELL
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	75
(b) All Other Design Costs	25
(c) Total	100
(d) Contract	70
(e) In-house	30
(4) Construction Start	91 APR

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION LACKLAND AIR FORCE BASE, TEXAS	4. PROJECT TITLE BASE ENGINEER COMPLEX

5. PROGRAM ELEMENT 8.57.96	6. CATEGORY CODE 219-944	7. PROJECT NUMBER MPLS899049	8. PROJECT COST($000) 8,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
BASE ENGINEER COMPLEX	SF	85,700		5,169
MANAGEMENT/ENGINEERING SPACE	SF	28,200	84	(2,369)
MAINTENANCE SHOPS	SF	21,500	85	(1,828)
STORAGE SHEDS	SF	36,000	27	(972)
SUPPORTING FACILITIES				2,000
UTILITIES	LS			(1,000)
PAVEMENTS	LS			(350)
SITE IMPROVEMENTS/DEMOLITION	LS			(650)
SUBTOTAL				7,169
CONTINGENCY (5%)				358
TOTAL CONTRACT COST				7,527
SUPERVISION, INSPECTION AND OVERHEAD (6%)				452
TOTAL REQUEST				7,979
TOTAL REQUEST (ROUNDED)				8,000

10. Description of Proposed Construction: Reinforced concrete foundation and concrete floor slab, pre-engineered metal frame, and roof system. Includes pre-wired work stations, parking area, all utilities and necessary support. Air Conditioning: 110 Tons.

11. REQUIREMENT: 85,700 SF ADEQUATE: 0 SUBSTANDARD: 87,200 SF

PROJECT: Construct a base engineer complex. (Current Mission)

REQUIREMENT: Adequate base engineer facilities in which to develop, program and execute requirements to maintain, repair, operate and construct facilities, pavements and utility systems in support of the base mission.

CURRENT SITUATION: Existing base engineer functions are dispersed in 29 deteriorated facilities that are not suitable for their current use and are not upgradable. Facilities do not have fire protection except for hand-operated extinguishers, and all are extremely difficult to heat and cool. Safety codes are violated within the entomology shop. Communications are severely impaired because of the scattered facilities, resulting in duplication of effort. Twenty-eight substandard facilities will be disposed of as a result of this project.

IMPACT IF NOT PROVIDED: Overcrowded conditions and safety hazards will continue to exist. These conditions will hinder support of the units assigned to this base.

ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION LACKLAND AIR FORCE BASE, TEXAS		
4. PROJECT TITLE BASE ENGINEER COMPLEX		5. PROJECT NUMBER MPLS899049

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 DEC 01
(b) Percent Complete as of Jan 90	60%
(c) Date 35% Designed	89 JUN 01
(d) Date Design Complete	90 JUN 01
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	450
(b) All Other Design Costs	150
(c) Total	600
(d) Contract	400
(e) In-house	200
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION LACKLAND AIR FORCE BASE, TEXAS	4. PROJECT TITLE DINING FACILITY

5. PROGRAM ELEMENT 8.57.96	6. CATEGORY CODE 722-351	7. PROJECT NUMBER MPLS879064	8. PROJECT COST($000) 4,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
DINING FACILITY	SF	23,000	120	2,760
SUPPORTING FACILITIES				835
UTILITIES	LS			(365)
PAVEMENTS	LS			(235)
SITE IMPROVEMENTS	LS			(145)
DEMOLITION	LS			(85)
COMMUNICATIONS SUPPORT	LS			(5)
SUBTOTAL				3,595
CONTINGENCY (5%)				180
TOTAL CONTRACT COST				3,775
SUPERVISION, INSPECTION AND OVERHEAD (6%)				227
TOTAL REQUEST				4,002
TOTAL REQUEST (ROUNDED)				4,000

10. Description of Proposed Construction: Masonry walls, concrete floor and foundation, steel beam and column frame with roof system. Facility to provide 700 seat dining capacity and all necessary support.
Air Conditioning: 175 Tons.

11. REQUIREMENT: 68,200 SF ADEQUATE: 45,200 SF SUBSTANDARD: 25,900 SF

PROJECT: Construct a student dining facility. (Current Mission)

REQUIREMENT: Adequate facilities to properly feed student and transient unaccompanied enlisted personnel. Adequate dining facilities are critical to assure personnel health, to maintain morale and to support mission requirements. There must be adequate food preparation and dishwashing equipment, food storage space, proper serving and dining areas with a pleasant atmosphere.

CURRENT SITUATION: Prior to the start of a dining facility upgrade program, student enlisted personnel were being served in three substandard dining halls. Not only had these buildings deteriorated beyond economical repair but they were energy inefficient and poorly configured to meet current standards. In addition, they were located nearly a mile from the new student housing area. Two of these facilities are scheduled for disposal upon completion of FY 86 and FY 90 MILCON dining facility projects. This project will provide the third replacement dining facility and will permit the disposal of one substandard facility.

IMPACT IF NOT PROVIDED: An inadequate, poorly located and unattractive dining hall will continue to be used with inefficient operations, customer dissatisfaction and excessive student transportation time. The base will continue to operate and maintain a high resource consuming facility.

ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION

LACKLAND AIR FORCE BASE, TEXAS

4. PROJECT TITLE DINING FACILITY	5. PROJECT NUMBER MPLS879064

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	87 APR 22
(b) Percent Complete as of Jan 90	65%
(c) Date 35% Designed	87 OCT 19
(d) Date Design Complete	90 JUL 15
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	519
(b) All Other Design Costs	
(c) Total	519
(d) Contract	336
(e) In-house	183
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION LACKLAND AIR FORCE BASE, TEXAS	4. PROJECT TITLE UPGRADE SEWER SYSTEM

5. PROGRAM ELEMENT 8.57.96	6. CATEGORY CODE 832-266	7. PROJECT NUMBER MPLS919036	8. PROJECT COST($000) 5,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
UPGRADE SEWER SYSTEM	LS			4,500
SUBTOTAL				4,500
CONTINGENCY (5%)				225
TOTAL CONTRACT COST				4,725
SUPERVISION, INSPECTION AND OVERHEAD (6%)				284
TOTAL REQUEST				5,009
TOTAL REQUEST (ROUNDED)				5,000

10. Description of Proposed Construction: Upgrade existing sanitary sewer lines by installing adequately sized pipe with proper connections.

11. REQUIREMENT: As required.

PROJECT: Upgrade existing sanitary sewer system. (Current Mission)

REQUIREMENT: An adequately sized and functioning sanitary sewerage system is necessary for the health and well-being of all individuals working and residing on base.

CURRENT SITUATION: Because of age and poor soil conditions many of the sewage lines have cracked, broken, collapsed or become misaligned. These problems have caused sewage to back up into buildings and have aggravated settlement problems. Due to numerous problems base-wide, a video camera study was conducted which revealed the poor conditions of all lines on base. This project will provide the necessary new lines and support equipment to correct these deficiencies and to adequately support the wastewater removal requirements for the base.

IMPACT IF NOT PROVIDED: Failure to upgrade the sewage system could lead to the stoppage of the entire mission at Lackland. The leakage from sewage lines will continue to be a health and environmental hazard and could expose the government to fines from state agencies as high as $10,000 per day, as well as lawsuits from private individuals.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION LACKLAND AIR FORCE BASE, TEXAS		
4. PROJECT TITLE UPGRADE SEWER SYSTEM		5. PROJECT NUMBER MPLS919036

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 DEC 15
(b) Percent Complete as of Jan 90	70%
(c) Date 35% Designed	89 SEP 01
(d) Date Design Complete	90 JUN 20
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	300
(b) All Other Design Costs	100
(c) Total	400
(d) Contract	300
(e) In-house	100
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

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1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION LACKLAND AIR FORCE BASE, TEXAS	4. PROJECT TITLE BASE ROADS

5. PROGRAM ELEMENT 8.57.96	6. CATEGORY CODE 851-147	7. PROJECT NUMBER MPLS919041	8. PROJECT COST($000) 4,150

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
BASE ROADS	LS			3,750
SUBTOTAL				3,750
CONTINGENCY (5%)				188
TOTAL CONTRACT COST				3,938
SUPERVISION, INSPECTION AND OVERHEAD (6%)				236
TOTAL REQUEST				4,174
TOTAL REQUEST (ROUNDED)				4,150

10. Description of Proposed Construction: An asphalt road system to connect the east and west sides of the base. Includes sidewalks, curbs and gutters, traffic control devices, gate house, pedestrian underpass, a highway overpass and necessary support.

11. REQUIREMENT: As required.

PROJECT: Construct a road with a bridge and an underpass. (Current Mission)

REQUIREMENT: An adequate road system to interconnect Lackland East with Lackland West and to provide safe troop movement on base.

CURRENT SITUATION: Currently Lackland is divided by a public highway which is used by 35,000 vehicles per day. This heavy volume of traffic creates tremendous traffic congestion for personnel and equipment crossing from one side to another. Troops marching to classes disrupt traffic flow and create safety hazards for both pedestrians and vehicles. This project will provide a new road across each side of the base, with an overpass over the public highway and an on-base troop underpass to correct the current safety problems.

IMPACT IF NOT PROVIDED: The public highway will continue to create a barrier that impacts emergency response, security, mission function, operations, maintenance and vehicular and pedestrian safety.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION LACKLAND AIR FORCE BASE, TEXAS		
4. PROJECT TITLE BASE ROADS		5. PROJECT NUMBER MPLS919041

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 DEC 01
(b) Percent Complete as of Jan 90	35%
(c) Date 35% Designed	89 SEP 01
(d) Date Design Complete	90 AUG 01
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	250
(b) All Other Design Costs	50
(c) Total	300
(d) Contract	300
(e) In-house	
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 7o Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION LAUGHLIN AIR FORCE BASE, TEXAS	4. COMMAND AIR TRAINING COMMAND	5. AREA CONST COST INDEX 0.90

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 89	482	916	979	411					2	2,790
b. End FY 1995	484	914	975	419					2	2,794

7. INVENTORY DATA ($000)

a. Total Acreage: (5,527)	
b. Inventory Total As Of: (30 SEP 89)	89,895
c. Authorization Not Yet In Inventory:	14,372
d. Authorization Requested In This Program:	1,820
e. Authorization Included In Following Program: (FY 92)	1,400
f. Planned In Next Three Program Years:	2,300
g. Remaining Deficiency:	0
h. Grand Total:	109,787

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
171-212	ADD TO AND ALTER FLIGHT SIMULATOR	LS	400	MAY 89	MAR 90
211-000	SPECIALIZED UPT MAINTENANCE SUPPORT	LS	970	DEC 88	APR 90
442-765	TROOP SUBSISTENCE WAREHOUSE	4,050 SF	450	JAN 89	JUL 90
		TOTAL:	1,820		

9a. Future Projects: Included in the Following Program (FY 92)

171-213	ADD TO AND ALTER SPECIALIZED UPT SQUADRON OPERATIONS FAC	LS	1,400
		TOTAL:	1,400

9b. Future Projects: Typical Planned Next Three Years:

130-142	FIRE STATION	15,300 SF	2,300

10. Mission or Major Functions: A flying training wing conducting classroom and flying training required to develop undergraduate pilot proficiency in T-37 and T-38 aircraft.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION RANDOLPH AIR FORCE BASE, TEXAS	4. COMMAND AIR TRAINING COMMAND	5. AREA CONST COST INDEX 0.88

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 89	1567	3543	2792	173			16	32	7	8,130
b. End FY 1995	1529	3504	2784	173			16	32	7	8,045

7. INVENTORY DATA ($000)

a. Total Acreage: (3,953)	
b. Inventory Total As Of: (30 SEP 89)	130,571
c. Authorization Not Yet In Inventory:	16,086
d. Authorization Requested In This Program:	1,750
e. Authorization Included In Following Program: (FY 92)	3,200
f. Planned In Next Three Program Years:	3,550
g. Remaining Deficiency:	0
h. Grand Total:	155,157

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
211-000	SPECIALIZED UPT MAINTENANCE SUPPORT	LS	1,750	DEC 88	JUN 90
		TOTAL:	1,750		

9a. Future Projects: Included in the Following Program (FY 92)

171-212	ALTER SPECIALIZED UPT SUPPORT FACILITY	LS	400
610-284	ALTER LOGISTICS MANAGEMENT FACILITY	36,700 SF	2,800
		TOTAL:	3,200

9b. Future Projects: Typical Planned Next Three Years:

610-284	ALTER ENGINEERING/PERSONNEL MANAGEMENT FACILITY	46,700 SF	3,550

10. Mission or Major Functions: A flying training wing conducting ground and flying training to develop pilot instructors proficiency in T-37 and T-38 aircraft; a MAC C-21 unit maintaining an operational airlift force; ATC headquarters responsible for management, control and direction of units at training bases; AF Recruiting Service headquarters responsible for management of all AF recruiting units; and the AF Management Engineering Agency which is responsible for the management engineering program; and AF Instrument Flight Center and AF Military Personnel Center.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION RANDOLPH AIR FORCE BASE, TEXAS	4. PROJECT TITLE SPECIALIZED UPT MAINTENANCE SUPPORT

5. PROGRAM ELEMENT 8.47.41	6. CATEGORY CODE 211-000	7. PROJECT NUMBER TYMX911010	8. PROJECT COST($000) 1,750

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
SPECIALIZED UPT MAINTENANCE SUPPORT	LS			1,425
CENTRAL AIRCRAFT SUPPORT SYSTEM	LS			(800)
WAREHOUSE	SF	7,800	57	(445)
ALTER SQUADRON OPERATIONS	LS			(180)
SUPPORTING FACILITIES				135
UTILITIES/PAVEMENTS	LS			(60)
SITE PREPARATION/DEMOLITION	LS			(75)
SUBTOTAL				1,560
CONTINGENCY (5%)				78
TOTAL CONTRACT COST				1,638
SUPERVISION, INSPECTION AND OVERHEAD (6%)				98
TOTAL REQUEST				1,736
TOTAL REQUEST (ROUNDED)				1,750

10. Description of Proposed Construction: Pre-engineered metal building with concrete floor slab and foundation. Includes modifying hangars and simulator facility; altering squadron operations facility; installing centralized aircraft support system (CASS), ramp security lighting, tie-downs and grounding points, and other necessary support.
Air Conditioning: 5 Tons.

11. REQUIREMENT: As required.
PROJECT: Construct a base supply warehouse, install a CASS and security lighting, and alter squadron operations, simulator and various hangar facilities. (New Mission)
REQUIREMENT: A new facility to provide integrated logistics support for maintenance on the Tanker-Transport-Trainer (TTTS) aircraft. Also, modifications are required because of changed airframe configurations, power requirements, simulator changeouts, and operational restructuring.
CURRENT SITUATION: Instructor pilot training is currently conducted at Randolph with T-37 and T-38 aircraft. All facilities are configured for these airframes. Air Training Command implementation of the TTTS program will require facility modifications to accommodate the new TTTS aircraft. Programmed change out of 17 of the T-38 trainers will necessitate minor modification to various facilities. Major considerations include a wider wingspan, differing power requirements, and change out of simulators. Existing facilities are not available on the flightline for the supply support functions. These activities must provide rapid response to parts replacement and secure storage. This project will provide the necessary facility support to accommodate the new aircraft.
IMPACT IF NOT PROVIDED: Failure to accomplish this project will impact overall mission capabilities. New aircraft will be put in operation

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION

RANDOLPH AIR FORCE BASE, TEXAS

4. PROJECT TITLE SPECIALIZED UPT MAINTENANCE SUPPORT	5. PROJECT NUMBER TYMX911010

without adequate facilities to perform the required maintenance. This would result in contractual problems, mission failure, and possible loss of property and/or life.
ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION RANDOLPH AIR FORCE BASE, TEXAS		
4. PROJECT TITLE SPECIALIZED UPT MAINTENANCE SUPPORT		5. PROJECT NUMBER TYMX911010

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 DEC 01
(b) Percent Complete as of Jan 90	50%
(c) Date 35% Designed	89 SEP 01
(d) Date Design Complete	90 JUN 15
(2) Basis:	
(a) Standard or Definitive Design -	YES
(b) Where Design Was Most Recently Used -	REESE
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	100
(b) All Other Design Costs	25
(c) Total	125
(d) Contract	120
(e) In-house	5
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION REESE AIR FORCE BASE, TEXAS	4. COMMAND AIR TRAINING COMMAND	5. AREA CONST COST INDEX 0.84

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 89	468	1678	588	355						3,089
b. End FY 1995	472	1646	576	335						3,029

7. INVENTORY DATA ($000)

a. Total Acreage: (3,643)	
b. Inventory Total As Of: (30 SEP 89)	82,165
c. Authorization Not Yet In Inventory:	610
d. Authorization Requested In This Program:	5,090
e. Authorization Included In Following Program: (FY 92)	1,950
f. Planned In Next Three Program Years:	500
g. Remaining Deficiency:	0
h. Grand Total:	90,315

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	CMPL
211-111	SPECIALIZED UPT MAINTENANCE HANGAR	45,000 SF	4,100	APR 89	APR 90
610-142	TRAFFIC MANAGEMENT FACILITY	7,900 SF	990	APR 89	NOV 89
		TOTAL:	5,090		

9a. Future Projects: Included in the Following Program (FY 92)

171-213	ADD TO AND ALTER SPECIALIZED UPT SUPPORT FACILITIES	LS	950
218-852	ADD TO AND UPGRADE LIFE SUPPORT EQUIPMENT FACILITIES	10,400 SF	1,000
		TOTAL:	1,950

9b. Future Projects: Typical Planned Next Three Years:

841-427	WATER STORAGE TANK	500 KG	500

10. Mission or Major Functions: A flying training wing conducting classroom and flying training required to develop proficiency of undergraduate pilots in T-37 and T-38 aircraft.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION REESE AIR FORCE BASE, TEXAS	4. PROJECT TITLE SPECIALIZED UPT MAINTENANCE HANGAR

5. PROGRAM ELEMENT 8.47.41	6. CATEGORY CODE 211-111	7. PROJECT NUMBER UBNY910022	8. PROJECT COST($000) 4,100

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
SPECIALIZED UPT MAINTENANCE HANGAR	SF	45,000	60	2,700
SUPPORTING FACILITIES				970
COMMUNICATIONS SUPPORT	LS			(10)
UTILITIES	LS			(200)
SITE IMPROVEMENTS	LS			(170)
PAVEMENTS	LS			(250)
FIRE PROTECTION SYSTEMS	LS			(340)
SUBTOTAL				3,670
CONTINGENCY (5%)				184
TOTAL CONTRACT COST				3,854
SUPERVISION, INSPECTION AND OVERHEAD (6%)				231
TOTAL REQUEST				4,085
TOTAL REQUEST (ROUNDED)				4,100

10. Description of Proposed Construction: Reinforced concrete footings, foundations and floor slab, metal walls, structural steel frame and pitched roof system, fire protection system, utilities and necessary support. Air Conditioning: 20 Tons.

11. REQUIREMENT: 84,000 SF ADEQUATE: 0 SUBSTANDARD: 0

PROJECT: Construct an aircraft maintenance hangar. (New Mission)

REQUIREMENT: An adequate facility to provide covered space for maintenance of Tanker-Transport-Trainer System (TTTS) aircraft. Functions include scheduled aircraft maintenance, inspections, repairs and modifications. Adequate space must be made available to accommodate these activities and assure the safe, efficient and secure accomplishment of work tasks.

CURRENT SITUATION: Reese is currently an Undergraduate Pilot Training (UPT) base with both T-37 and T-38 aircraft. All facilities are configured for these airframes which have a wingspan smaller than the TTTS aircraft. Programmed changeout of all the T-38 trainers will require construction of hangar space to support the new aircraft since there is no existing, properly sized hangar. This project will provide the first of two phases to accommodate the TTTS hangar requirements.

IMPACT IF NOT PROVIDED: Failure to accomplish this project will impact overall mission capabilities. A new aircraft will be put in operation without adequate facilities to perform the required maintenance.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION REESE AIR FORCE BASE, TEXAS		
4. PROJECT TITLE SPECIALIZED UPT MAINTENANCE HANGAR		5. PROJECT NUMBER UBNY910022

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 APR 01
(b) Percent Complete as of Jan 90	90%
(c) Date 35% Designed	89 AUG 01
(d) Date Design Complete	90 APR 01
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	270
(b) All Other Design Costs	
(c) Total	270
(d) Contract	216
(e) In-house	54
(4) Construction Start	91 FEB

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION SHEPPARD AIR FORCE BASE, TEXAS	4. COMMAND AIR TRAINING COMMAND	5. AREA CONST COST INDEX 0.97

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 89	675	2472	1251	337	4046	101	1	288	28	9,199
b. End FY 1995	674	2486	1230	343	4421	101	1	288	28	9,572

7. INVENTORY DATA ($000)

a. Total Acreage: (5,406)	
b. Inventory Total As Of: (30 SEP 89)	211,490
c. Authorization Not Yet In Inventory:	27,350
d. Authorization Requested In This Program:	8,400
e. Authorization Included In Following Program: (FY 92)	16,720
f. Planned In Next Three Program Years:	18,100
g. Remaining Deficiency:	0
h. Grand Total:	282,060

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
211-159	AIRCRAFT CORROSION CONTROL FACILITY	LS	550	APR 89	AUG 90
219-944	BASE ENGINEER COMPLEX	68,500 SF	6,800	NOV 88	JUL 90
610-249	WING OPERATIONS FACILITY	13,000 SF	1,050	MAR 89	JUN 90
		TOTAL:	8,400		

9a. Future Projects: Included in the Following Program (FY 92)

111-111	RUNWAY/LAND ACQUISITION	LS	6,600
171-211	ALTER FLIGHT TRAINING FACILITY	LS	520
171-621	ADD TO AND ALTER MEDICAL TRAINING COMPLEX	100,500 SF	8,300
832-266	REGIONAL WASTEWATER CONNECTION	15,000 LF	1,300
		TOTAL:	16,720

9b. Future Projects: Typical Planned Next Three Years:

171-621	ALTR MEDICAL TRAINING COMPLEX	158,300 SF	7,300
171-623	COVERED AGE TRAINING FACILITY	8,500 SF	960
218-712	COVERED AGE MAINTENANCE FACILITY	6,200 SF	390
724-415	STUDENT OFFICER HOUSING ENJJPT	200 PN	3,750
724-417	STUDENT DORMITORY	120 PN	5,700

10. Mission or Major Functions: A flying training wing for US and foreign students to develop proficiency in T-37 and T-38 aircraft through classroom and flying training. Also hosts a Technical Training Center for aircraft maintenance, civil engineering, comptroller, transportation and instructor training ; the USAF Health Care Science School; and a USAF Regional Hospital.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION SHEPPARD AIR FORCE BASE, TEXAS	4. PROJECT TITLE BASE ENGINEER COMPLEX

5. PROGRAM ELEMENT 8.57.96	6. CATEGORY CODE 219-944	7. PROJECT NUMBER VNVP862005	8. PROJECT COST($000) 6,800

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
BASE ENGINEER COMPLEX	SF	68,500	69	4,727
SUPPORTING FACILITIES				1,405
UTILITIES	LS			(475)
PAVEMENTS	LS			(285)
SITE IMPROVEMENTS	LS			(575)
COMMUNICATIONS SUPPORT	LS			(70)
SUBTOTAL				6,132
CONTINGENCY (5%)				307
TOTAL CONTRACT COST				6,439
SUPERVISION, INSPECTION AND OVERHEAD (6%)				386
TOTAL REQUEST				6,825
TOTAL REQUEST (ROUNDED)				6,800

10. Description of Proposed Construction: Four concrete masonry and steel structures with roof systems, one pre-engineered metal building, and vehicle parking area. Relocate Energy Monitoring & Control System (EMCS) lines. Includes management/engineering space, pre-wired work stations, storage, shops, drafting room, control rooms, and all necessary support. Air Conditioning: 110 Tons.

11. REQUIREMENT: 74,100 SF ADEQUATE: 5,600 SFSUBSTANDARD: 108,500 SF

PROJECT: Construct a base engineer complex. (Current Mission)

REQUIREMENT: Adequate facilities in which to develop, program, and execute requirements to maintain, repair, operate, and construct facilities, pavements and utility systems in support of the base mission.

CURRENT SITUATION: Existing base engineering functions are dispersed throughout 23 facilities on base. Maintenance shops are located in six facilities and covered storage is located in nine. The inability to consolidate work control, planning, administrative, and maintenance shops makes supervision difficult and increases the effort required to prepare work schedules and plans. Most of these facilities have deteriorated beyond economic repair. This project will provide a new complex to accommodate these activities and will allow the disposal of 17 substandard facilities.

IMPACT IF NOT PROVIDED: Base engineer functions will continue to operate from dispersed and substandard facilities with the associated reduced efficiency and productivity.

ADDITIONAL: An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost efficient

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION SHEPPARD AIR FORCE BASE, TEXAS		
4. PROJECT TITLE BASE ENGINEER COMPLEX		5. PROJECT NUMBER VNVP862005

over the life of the project. This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION SHEPPARD AIR FORCE BASE, TEXAS		
4. PROJECT TITLE BASE ENGINEER COMPLEX		5. PROJECT NUMBER VNVP862005

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 NOV 01
(b) Percent Complete as of Jan 90	50%
(c) Date 35% Designed	89 JUL 27
(d) Date Design Complete	90 JUL 01
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	256
(b) All Other Design Costs	142
(c) Total	398
(d) Contract	284
(e) In-house	114
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION SHEPPARD AIR FORCE BASE, TEXAS	4. PROJECT TITLE WING OPERATIONS FACILITY

5. PROGRAM ELEMENT 8.57.96	6. CATEGORY CODE 610-249	7. PROJECT NUMBER VNVP912010	8. PROJECT COST($000) 1,050

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
WING OPERATIONS FACILITY	SF	13,000	97	1,261
SUPPORTING FACILITIES				635
COMMUNICATIONS SUPPORT	LS			(40)
UTILITIES	LS			(470)
PAVEMENTS	LS			(35)
SITE IMPROVEMENTS	LS			(90)
SUBTOTAL				1,896
CONTINGENCY (5%)				95
TOTAL CONTRACT COST				1,991
SUPERVISION, INSPECTION AND OVERHEAD (6%)				119
TOTAL REQUEST				2,110
TOTAL REQUEST (ROUNDED)				2,100
TOTAL REQUEST				1,050
FUNDS PROVIDED BY NATO NATIONS				(1,050)

10. Description of Proposed Construction: Reinforced concrete foundation and floor slab, brick veneer concrete block walls, roof system and utilities. Area includes administrative space, computer areas, pre-wired work stations, conference room, record storage, test room, mapping and drawing room, and support space. Air Conditioning: 30 Tons.

11. REQUIREMENT: 13,000 SF ADEQUATE: 0 SUBSTANDARD: 12,670 SF

PROJECT: Construct a wing operations facility. (New Mission)

REQUIREMENT: An adequate facility in which to manage operations, evaluations and personnel in support of the Euro-NATO Joint Jet Pilot Training (ENJJPT) program.

CURRENT SITUATION: Wing operations activities including three squadron staffs, occupy borrowed space in the training and academic facility that supports ENJJPT. The facility is not configured to support wing and squadron administrative staffs. More importantly, the training mission which accommodates 320 incoming students per year crowds into less than three-fourths of their required space with half the rooms having less than 30 square feet per person. The training environment is crowded and noisy due to the collocation with wing operations staff. The wing requires a facility functionally arranged to accommodate its mission. The borrowed space would be returned to the training and academic function.

IMPACT IF NOT PROVIDED: Without this project, these functions will be forced to continue to occupy crowded, noisy and substandard facilities with the resultant degradation of the mission.

ADDITIONAL: Total project cost of $2,100,000 will be shared equally by the Air Force and the ENJJPT nations. This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

DD FORM 1391, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION SHEPPARD AIR FORCE BASE, TEXAS		
4. PROJECT TITLE WING OPERATIONS FACILITY		5. PROJECT NUMBER VNVP912010

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 MAR 01
(b) Percent Complete as of Jan 90	70%
(c) Date 35% Designed	89 JUN 01
(d) Date Design Complete	90 JUN 01
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	79
(b) All Other Design Costs	
(c) Total	79
(d) Contract	63
(e) In-house	16
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION HILL AIR FORCE BASE, UTAH	4. COMMAND AIR FORCE LOGISTICS COMMAND	5. AREA CONST COST INDEX 1.03

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 89	658	4280	13846				1		134	18,919
b. End FY 1995	652	4348	13826				1		134	18,961

7. INVENTORY DATA ($000)	
a. Total Acreage: (948,955)	
b. Inventory Total As Of: (30 SEP 89)	488,618
c. Authorization Not Yet In Inventory:	99,620
d. Authorization Requested In This Program:	22,500
e. Authorization Included In Following Program: (FY 92)	58,980
f. Planned In Next Three Program Years:	95,340
g. Remaining Deficiency:	0
h. Grand Total:	765,058

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	CMPL
422-256	PEACEKEEPER STAGE STORAGE FACILITY	11,300 SF	3,250	AUG 89	AUG 90
422-264	PEACEKEEPER ORDNANCE STORAGE	11,300 SF	3,250	AUG 89	AUG 90
441-758	DEPOT WAREHOUSE	301,000 SF	16,000	JAN 85	MAR 89
		TOTAL:	22,500		

9a. Future Projects: Included in the Following Program (FY 92)

131-143	GAPFILLER RADAR SITE	225 SF	1,500
132-133	THREAT SITES	10,000 SF	4,100
141-764	INTEGRATION SUPPORT FACILITY	50,000 SF	9,300
171-152	PEACEKEEPER TEST FACILITY	48,000 SF	11,400
211-111	HELICOPTER HANGER SAND PASS	12,060 SF	1,500
212-213	MISSILE MAINTENANCE SHOP	9,300 SF	2,350
217-812	RANGE MAINTENANCE FACILITY SAND PASS	34,800 SF	4,000
312-477	ICBM NON-DESTRUCTIVE INSPECTION FACILITY	11,000 SF	2,800
317-315	MISSION CONTROL CENTER	53,500 SF	11,200
441-758	SUPPLIES & EQUIP WHSE DEPOT	80,000 SF	5,400
441-758	AUTOMATED TIRE STORAGE SYSTEM FACILITY	48,300 SF	5,000
451-134	OPEN STORAGE DEPOT	LS	430
		TOTAL:	58,980

9b. Future Projects: Typical Planned Next Three Years:

211-116	DEPOT MAINTENANCE HANGAR	300,000 SF	11,600
211-159	C-130 DEPOT MAINTENANCE FACILITY	52,500 SF	5,000
312-477	PEACEKEEPER-ADD TO AND ALTER STATIC TEST STAND	LS	3,800
441-758	SUPPLIES & EQUIP WHSE DEPOT	137,000 SF	8,200
441-758	SUPPLIES & EQUIP WHSE DEPOT	127,000 SF	14,000

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION HILL AIR FORCE BASE, UTAH	4. COMMAND AIR FORCE LOGISTICS COMMAND	5. AREA CONST COST INDEX 1.03

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of										
b. End FY 19										

7. INVENTORY DATA ($000)

a. Total Acreage:
b. Inventory Total As Of:
c. Authorization Not Yet In Inventory:
d. Authorization Requested In This Program:
e. Authorization Included In Following Program:
f. Planned In Next Three Program Years:
g. Remaining Deficiency:
h. Grand Total:

10. Mission or Major Functions: An Air Logistics Center responsible for logistics management, support and depot level maintenance for the F-4 and F-16 aircraft, and ICBMs. Technology Repair center for aircraft weapons systems, air munitions, ICBM components, aircraft landing gear and navigational instrumentation. Other active mission activities include a TFW with three squadrons operating F-16 aircraft; a reserve TFW operating F-16 aircraft;and an AFSC Test Group with C-130, CH-53E, HH-1, H-3, and 0-2 aircraft.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION HILL AIR FORCE BASE, UTAH	4. PROJECT TITLE PEACEKEEPER STAGE STORAGE FACILITY

5. PROGRAM ELEMENT 1.12.15	6. CATEGORY CODE 422-256	7. PROJECT NUMBER KRSM913014	8. PROJECT COST($000) 3,250

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PEACEKEEPER STAGE STORAGE FACILITY	SF	11,300	220	2,486
SUPPORTING FACILITIES				450
UTILITIES	LS			(450)
SUBTOTAL				2,936
CONTINGENCY (5%)				147
TOTAL CONTRACT COST				3,083
SUPERVISION, INSPECTION AND OVERHEAD (6%)				185
TOTAL REQUEST				3,268
TOTAL REQUEST (ROUNDED)				3,250

10. Description of Proposed Construction: Earth-covered reinforced concrete storage magazine; must be built to store 500,000 lbs net explosive weight (NEW) 1.1 class propellant. Four bays with doors and loading dock. Access roads and other necessary support.

11. REQUIREMENT: 107,000 SF ADEQUATE: 62,000 SFSUBSTANDARD: 0

PROJECT: Construct a Peacekeeper stage storage facility. (New Mission)

REQUIREMENT: A facility is required to safely store Peacekeeper stages I, II, III motors in support of weapon system deployment, aging and surveillance programs, and replacement spares.

CURRENT SITUATION: There is not sufficient storage for the Peacekeeper stage I, II, and III motors. No significant storage capacity exists at contractors' facilities and no other facilities exist on base that are structurally capable of safely storing these motors and meeting explosive safety quantity distance clearances.

IMPACT IF NOT PROVIDED: Motor deliveries will be delayed and production rates reduced resulting in contract penalties and increased weapon system costs. Spares will not be available to replace stages requiring maintenance, perform aging and surveillance testing and perform flight operational testing and evaluation. The Peacekeeper/Rail Garrison mission will be degraded.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION HILL AIR FORCE BASE, UTAH		
4. PROJECT TITLE PEACEKEEPER STAGE STORAGE FACILITY		5. PROJECT NUMBER KRSM913014

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 AUG 01
(b) Percent Complete as of Jan 90	35%
(c) Date 35% Designed	89 DEC 20
(d) Date Design Complete	90 AUG 01
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	950
(b) All Other Design Costs	850
(c) Total	1800
(d) Contract	1200
(e) In-house	600
(4) Construction Start	91 APR

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION HILL AIR FORCE BASE, UTAH	4. PROJECT TITLE PEACEKEEPER ORDNANCE STORAGE

5. PROGRAM ELEMENT 1.12.15	6. CATEGORY CODE 422-264	7. PROJECT NUMBER KRSM913015	8. PROJECT COST($000) 3,250

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PEACEKEEPER ORDNANCE STORAGE	SF	11,300	220	2,486
SUPPORTING FACILITIES				450
UTILITIES	LS			(450)
SUBTOTAL				2,936
CONTINGENCY (5%)				147
TOTAL CONTRACT COST				3,083
SUPERVISION, INSPECTION AND OVERHEAD (6%)				185
TOTAL REQUEST				3,268
TOTAL REQUEST (ROUNDED)				3,250

10. Description of Proposed Construction: Earth-covered reinforced concrete storage magazine; must be able to store 500,000 lbs net explosive weight (NEW) 1.1 class propellant. Four bays with doors and loading dock.

11. REQUIREMENT: 109,800 SF ADEQUATE: 98,500 SFSUBSTANDARD: 0

PROJECT: Construct an ordnance storage facility. (New Mission)

REQUIREMENT: A facility is required to safely store Peacekeeper Rail Garrison explosive components such as hot gas generators, flight termination ordnance kits, and aging and surveillance program spares. The facility must be sited and constructed in accordance with explosive safety and security requirements.

CURRENT SITUATION: No space exists to accommodate the Peacekeeper Rail Garrison ordnance items. Peacekeeper shrouds containing explosive material are being stored in a depot warehouse.

IMPACT IF NOT PROVIDED: Delays in production will occur, material support to the operational units will be degraded, and the Peacekeeper mission will be degraded.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

DD FORM 1391, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION HILL AIR FORCE BASE, UTAH		
4. PROJECT TITLE PEACEKEEPER ORDNANCE STORAGE		5. PROJECT NUMBER KRSM913015

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 AUG 01
(b) Percent Complete as of Jan 90	35%
(c) Date 35% Designed	89 DEC 20
(d) Date Design Complete	90 AUG 01
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	950
(b) All Other Design Costs	850
(c) Total	1800
(d) Contract	1200
(e) In-house	600
(4) Construction Start	91 APR

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION HILL AIR FORCE BASE, UTAH	4. PROJECT TITLE DEPOT WAREHOUSE

5. PROGRAM ELEMENT 7.11.11	6. CATEGORY CODE 441-758	7. PROJECT NUMBER KRSM870067	8. PROJECT COST($000) 16,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
DEPOT WAREHOUSE	SF	301,000	43	12,943
SUPPORTING FACILITIES				1,405
UTILITIES	LS			(425)
PAVEMENTS	LS			(280)
SITE IMPROVEMENTS	LS			(185)
COMMUNICATIONS SUPPORT	LS			(515)
SUBTOTAL				14,348
CONTINGENCY (5%)				717
TOTAL CONTRACT COST				15,065
SUPERVISION, INSPECTION AND OVERHEAD (6%)				904
TOTAL REQUEST				15,969
TOTAL REQUEST (ROUNDED)				16,000
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(100)

10. Description of Proposed Construction: Reinforced concrete tilt-up walls, foundation and floor slab, structural steel frame and roof system. Includes general purpose warehouse space and necessary support.

11. REQUIREMENT: 2,610,000 SF ADEQUATE: 1,363,000 SF SUBSTANDARD: 962,700 SF

PROJECT: Construct a depot warehouse. (Current Mission)

REQUIREMENT: Adequate facilities for covered and secure storage of supplies and equipment used in depot operations and distributed to Air Force units worldwide. Functions to be accommodated include receiving, storing, securing and issuing supply assets including aircraft engine parts and other components.

CURRENT SITUATION: There is a significant shortage of adequate depot warehouse space at Hill. Facilities are saturated, resulting in spill-over storage in aisles and outdoor open storage areas, increasing the risk of fire and weather damage. These overcrowded conditions are the result of steadily increasing numbers of line items and the quantities for each line item being stored. About 40 percent of the existing warehouse space is substandard and in need of replacement. Several column and truss failures have occurred, resulting in extensive repairs and interim bracing. In addition, this space does not have sufficient stacking headroom or room to accommodate modern mechanized material handling equipment. The lack of adequate space coupled with the forced use of open storage contributes to overall inefficient warehouse operations and premature deterioration of stored materials. This project will relieve overcrowding, allow items to be moved from the open storage areas and permit disposal of two WWII facilities. The project is the first of a multi-phased program to meet the total deficit in depot warehouse space.

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION HILL AIR FORCE BASE, UTAH		
4. PROJECT TITLE DEPOT WAREHOUSE		5. PROJECT NUMBER KRSM870067

IMPACT IF NOT PROVIDED: Without this project, inefficient warehousing operations will continue adversely impacting logistical support of the Air Force's worldwide flying mission, as well as the base's industrial mission.

ADDITIONAL: An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost efficient over the life of the project. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION

HILL AIR FORCE BASE, UTAH

4. PROJECT TITLE DEPOT WAREHOUSE	5. PROJECT NUMBER KRSM870067

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	85 JAN 21
(b) Percent Complete as of Jan 90	100%
(c) Date 35% Designed	85 OCT 15
(d) Date Design Complete	89 MAR 30
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	1000
(b) All Other Design Costs	155
(c) Total	1155
(d) Contract	1000
(e) In-house	155
(4) Construction Start	91 APR

b. Equipment associated with this project will be provided from other appropriations:

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
STORAGE AIDS	3080	1991	100

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION LANGLEY AIR FORCE BASE, VIRGINIA	4. COMMAND TACTICAL AIR COMMAND	5. AREA CONST COST INDEX 0.92

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 89	2130	7230	1851				16	38	5	11,270
b. End FY 1995	2113	7275	1839				16	38	5	11,286

7. INVENTORY DATA ($000)

a. Total Acreage: (5,382)	
b. Inventory Total As Of: (30 SEP 89)	210,558
c. Authorization Not Yet In Inventory:	29,290
d. Authorization Requested In This Program:	600
e. Authorization Included In Following Program: (FY 92)	0
f. Planned In Next Three Program Years:	12,300
g. Remaining Deficiency:	0
h. Grand Total:	252,748

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
211-193	SOUND SUPPRESSOR SUPPORT	LS	600	FEB 89	FEB 90
		TOTAL:	600		

9a. Future Projects: Included in the Following Program (FY 92) NONE

9b. Future Projects: Typical Planned Next Three Years:

214-425	ADD TO VEHICLE MAINTENANCE SHOP	5,200 SF	1,100
721-312	DORMITORY	288 PN	5,800
740-674	PHYSICAL FITNESS FACILITY	33,710 SF	5,400

10. Mission or Major Functions: This base hosts Headquarters, Tactical Air Command, a numbered Air Force headquarters, a tactical fighter wing of F-15 aircraft, a fighter interceptor squadron with F-15, an airborne command and control squadron with EC-135 aircraft, an airlift detachment with C-21A aircraft and an aircraft delivery group.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION FAIRCHILD AIR FORCE BASE, WASHINGTON	4. COMMAND STRATEGIC AIR COMMAND	5. AREA CONST COST INDEX 1.19

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 89	558	3800	546	112	93					5,109
b. End FY 1995	571	3761	545	112	93					5,082

7. INVENTORY DATA ($000)

a. Total Acreage: (5,816)	
b. Inventory Total As Of: (30 SEP 89)	215,116
c. Authorization Not Yet In Inventory:	25,270
d. Authorization Requested In This Program:	108,040
e. Authorization Included In Following Program: (FY 92)	2,210
f. Planned In Next Three Program Years:	34,220
g. Remaining Deficiency:	0
h. Grand Total:	384,856

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE		COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
141-177	PEACEKEEPER-GARRISON FACILITIES		LS	73,000	MAY 89	JUN 90
171-000	PEACEKEEPER-TRAINING TRAIN SHELTER	30,000	SF	3,750	JUL 89	JUN 90
211-152	ALTER AIRCRAFT MAINTENANCE COMPLEX	63,600	SF	9,600	DEC 88	APR 90
212-216	PEACEKEEPER-MISSILE OPERATIONS MAINTENANCE FACILITY		LS	6,900	JUL 89	JUN 90
217-722	PEACEKEEPER-ADD TO AND ALTER COMMUNICATIONS MAINT FACILITY	6,000	SF	990	JUL 89	JUN 90
812-926	ADD TO AND ALTER AIRCRAFT PARKING APRON LIGHTING		LS	1,600	JAN 89	MAR 90
860-000	PEACEKEEPER-ROAD, RAILROAD AND UTILITIES		LS	11,200	JUN 89	JUN 90
911-000	PEACEKEEPER-LAND ACQUISITION	419	AC	1,000		
		TOTAL:		108,040		

9a. Future Projects: Included in the Following Program (FY 92)

130-142	PEACEKEEPER-ADD TO AND ALTER FIRE STATION	900	SF	220
212-212	CRUISE MISSILE FUEL STORAGE TANK ADDITION	7,000	GL	290
442-758	PEACEKEEPER-ADD TO AND ALTER WAREHOUSE	9,400	SF	1,000
872-247	ALERT TAXIWAY BARRIER		LS	700
		TOTAL:		2,210

9b. Future Projects: Typical Planned Next Three Years:

179-219	PARACHUTE TRAINING SWING	13,500	SF	2,200
211-154	AIRCRAFT ORGANIZATIONAL MAINTENANCE FACILITY	56,480	SF	8,000
218-868	PRECISION MEASUREMENT EQUIPMENT LAB	7,200	SF	2,000
872-841	UPGRADE PERIMETER SENSORS		LS	850

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE

3. INSTALLATION AND LOCATION FAIRCHILD AIR FORCE BASE, WASHINGTON	4. COMMAND STRATEGIC AIR COMMAND	5. AREA CONST COST INDEX 1.19

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of										
b. End FY 19										

7. INVENTORY DATA ($000)

a. Total Acreage:
b. Inventory Total As Of:
c. Authorization Not Yet In Inventory:
d. Authorization Requested In This Program:
e. Authorization Included In Following Program:
f. Planned In Next Three Program Years:
g. Remaining Deficiency:
h. Grand Total:

9b. Future Projects: Typical Planned Next Three Years:

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
872-911	ALERT AIRCRAFT SECURITY	LS	4,670		

10. Mission or Major Functions: Active mission support activities include a heavy bombardment operational wing including one B-52 squadron and two KC-135 squadrons which maintain a bomber and tanker alert force; Air Training Command combat crew survival training; Military Airlift Command rescue and recovery; and Air National Guard air refueling wing (KC-135).

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution: 0
b. Water pollution: 0
c. Occupational safety and health: 0

DD FORM 1390, 1 DEC 76. Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION FAIRCHILD AIR FORCE BASE, WASHINGTON	4. PROJECT TITLE PEACEKEEPER-GARRISON FACILITIES

5. PROGRAM ELEMENT 1.12.15	6. CATEGORY CODE 141-177	7. PROJECT NUMBER PAYZ913250	8. PROJECT COST($000) 73,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PEACEKEEPER-GARRISON FACILITIES	LS			65,434
TRAIN ALERT SHELTER (4 EA)	SF	144,000	220	(31,680)
ENTRY CONTROL FACILITY	SF	750	700	(525)
SECURITY FENCE/LIGHTING	LS			(5,365)
ALERT SECURITY/CONTROL CENTER	SF	21,000	230	(4,830)
GARRISON MAINTENANCE FACILITY	SF	22,000	320	(7,040)
FACILITY ACCESS RAIL	LF	10,000	740	(7,400)
ROADS AND UTILITIES	LS			(5,865)
RELOCATE VARIOUS FACILITIES	LS			(2,729)
SUBTOTAL				65,434
CONTINGENCY (5%)				3,272
TOTAL CONTRACT COST				68,706
SUPERVISION, INSPECTION AND OVERHEAD (6%)				4,122
TOTAL REQUEST				72,828
TOTAL REQUEST (ROUNDED)				73,000

10. Description of Proposed Construction: Reinforced concrete foundations and floor slabs, roof and wall systems, fire protection, security, rails, roads, utilities, pavements, site improvement and other necessary support.

11. REQUIREMENT: As required.

PROJECT: Construct garrison facilities to house the Peacekeeper Missile Train System. (New Mission)

REQUIREMENT: Facilities to support the Rail Garrison Missile System. These consist of four Train Alert Shelters (TAS) to house the Peacekeeper Missile Train System; the igloo portion of the TAS to provide interfaces for the launch ports and train egress doors; an entry control facility to control access of personnel, vehicles, and material into the garrison area; security, fencing, and lighting within and around the entire garrison perimeter to assist in deterring unauthorized entry; a Garrison Alert and Security Control Center to house the train alert crew and security forces; Garrison Maintenance Facility (GMF) to perform organizational maintenance on trains including Missile Guidance Control Set and removal and replacement of reentry systems; railroad tracks and roads to provide access to the Garrison facilities; and a standby power facility for standby generators to ensure continuous electrical power is available to the garrison area loads.

CURRENT SITUATION: There are no existing facilities at this location that will satisfy the garrison area requirements of the Peacekeeper Rail Garrison System. The siting of the garrison area will require relocating the existing explosive ordnance disposal range, grenade range, resistance training facility and associated roads and utilities. Although adequate for current use, these facilities will be unusable due to their location

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION FAIRCHILD AIR FORCE BASE, WASHINGTON		
4. PROJECT TITLE PEACEKEEPER-GARRISON FACILITIES		5. PROJECT NUMBER PAYZ913250

within the garrison facility quantity-distance safety zones and require resiting and replacing as part of this project.

IMPACT IF NOT PROVIDED: Garrison system acquisition milestones require that these facilities be provided to support final operational capability. A delay of critical facilities would cause an adverse effect on the Peacekeeper Rail Garrison System deployment.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION FAIRCHILD AIR FORCE BASE, WASHINGTON		
4. PROJECT TITLE PEACEKEEPER-GARRISON FACILITIES		5. PROJECT NUMBER PAYZ913250

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 MAY 15
(b) Percent Complete as of Jan 90	35%
(c) Date 35% Designed	89 SEP 10
(d) Date Design Complete	90 JUN 15
(2) Basis:	
(a) Standard or Definitive Design -	YES
(b) Where Design Was Most Recently Used -	F E WARR
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	4000
(b) All Other Design Costs	560
(c) Total	4560
(d) Contract	4200
(e) In-house	360
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION FAIRCHILD AIR FORCE BASE, WASHINGTON	4. PROJECT TITLE PEACEKEEPER-TRAINING TRAIN SHELTER

5. PROGRAM ELEMENT 1.12.15	6. CATEGORY CODE 171-000	7. PROJECT NUMBER PAYZ913255	8. PROJECT COST($000) 3,750

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PEACEKEEPER-TRAINING TRAIN SHELTER	SF	30,000	97	2,910
SUPPORTING FACILITIES				475
UTILITIES	LS			(185)
PAVEMENTS	LS			(290)
SUBTOTAL				3,385
CONTINGENCY (5%)				169
TOTAL CONTRACT COST				3,554
SUPERVISION, INSPECTION AND OVERHEAD (6%)				213
TOTAL REQUEST				3,767
TOTAL REQUEST (ROUNDED)				3,750

10. Description of Proposed Construction: Reinforced concrete footings, and floor slabs, roof and wall systems, site improvements and other necessary support.

11. REQUIREMENT: 30,000 SF ADEQUATE: 0 SUBSTANDARD: 0

PROJECT: Construct a Peacekeeper rail garrison training train shelter. (New Mission)

REQUIREMENT: A facility to house the training train for organizational maintenance and operational deployment training. The shelter simulates the interior of an operational train alert shelter and will permit maintenance and repair training.

CURRENT SITUATION: There are no existing facilities at this location that will satisfy or accommodate the training train requirements.

IMPACT IF NOT PROVIDED: Specialized maintenance training for the rail garrison system would be compromised and continued capability of the weapon system jeopardized.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

DD FORM 1391, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION FAIRCHILD AIR FORCE BASE, WASHINGTON		
4. PROJECT TITLE PEACEKEEPER-TRAINING TRAIN SHELTER		5. PROJECT NUMBER PAYZ913255

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 JUL 01
(b) Percent Complete as of Jan 90	35%
(c) Date 35% Designed	89 OCT 10
(d) Date Design Complete	90 JUN 15
(2) Basis:	
(a) Standard or Definitive Design -	YES
(b) Where Design Was Most Recently Used -	F E WARR
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	250
(b) All Other Design Costs	125
(c) Total	375
(d) Contract	300
(e) In-house	75
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION FAIRCHILD AIR FORCE BASE, WASHINGTON	4. PROJECT TITLE ALTER AIRCRAFT MAINTENANCE COMPLEX

5. PROGRAM ELEMENT 1.18.96	6. CATEGORY CODE 211-152	7. PROJECT NUMBER GJKZ8600062	8. PROJECT COST($000) 9,600

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ALTER AIRCRAFT MAINTENANCE COMPLEX	SF	63,600		6,003
MAINTENANCE MANAGEMENT	SF	35,000	86	(3,010)
AIRCRAFT MAINTENANCE SHOPS	SF	24,100	110	(2,651)
AIR PASSENGER TERMINAL	SF	4,500	76	(342)
SUPPORTING FACILITIES				2,225
UTILITIES	LS			(590)
FIRE PROTECTION	LS			(1,150)
COMMUNICATIONS SUPPORT	LS			(180)
SITE IMPROVEMENTS	LS			(85)
ASBESTOS REMOVAL	LS			(220)
SUBTOTAL				8,228
CONTINGENCY (10%)				823
TOTAL CONTRACT COST				9,051
SUPERVISION, INSPECTION AND OVERHEAD (6%)				543
TOTAL REQUEST				9,594
TOTAL REQUEST (ROUNDED)				9,600

10. Description of Proposed Construction: All structural, electrical and mechanical work necessary to upgrade the aircraft maintenance complex. Includes munitions and weapons systems maintenance management areas; weapons and release, survival equipment, and support equipment shops; air passenger terminal and other necessary support.

11. REQUIREMENT: 166,400 SF ADEQUATE: 102,800 SF
SUBSTANDARD: 63,600 SF

PROJECT: Alter the aircraft maintenance complex. (Current Mission)

REQUIREMENT: Adequate space in which to perform various aircraft maintenance, survival equipment and passenger terminal functions.

CURRENT SITUATION: Most of the current aircraft maintenance functions and activities are located in a large hangar with considerable unused space. This project will consolidate these functions and provide space for three additional functions which are located in a substandard WWII facility scheduled for disposal. The unused space in the hangar has poor lighting and inadequate fire protection and ventilation. In addition, the hangar has asbestos throughout which must be removed. Many of these maintenance functions are scattered throughout the base. This causes many lost manhours in transit time between facilities and contributes to a general lack of management control.

IMPACT IF NOT PROVIDED: Personnel will continue to work in substandard offices within the maintenance complex. Currently, unoccupied areas in the large hangar facility will remain unusable, causing related functions to be scattered throughout the base. Needless man-hours will be lost as personnel continue to travel between the different maintenance support functions. Personnel will continue to work in a potentially hazardous environment with the Air Force liable for possible serious long-term

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION FAIRCHILD AIR FORCE BASE, WASHINGTON		
4. PROJECT TITLE ALTER AIRCRAFT MAINTENANCE COMPLEX		5. PROJECT NUMBER GJKZ8600062

health problems in people working in the building.
ADDITIONAL: An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, alteration was found to be the most cost efficient over the life of the project. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION

FAIRCHILD AIR FORCE BASE, WASHINGTON

4. PROJECT TITLE ALTER AIRCRAFT MAINTENANCE COMPLEX	5. PROJECT NUMBER GJKZ8600062

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 DEC 15
(b) Percent Complete as of Jan 90	50%
(c) Date 35% Designed	89 JUN 30
(d) Date Design Complete	90 APR 01
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	588
(b) All Other Design Costs	147
(c) Total	735
(d) Contract	515
(e) In-house	220
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION FAIRCHILD AIR FORCE BASE, WASHINGTON	4. PROJECT TITLE PEACEKEEPER-MISSILE OPERATIONS /MAINTENANCE FACILITY

5. PROGRAM ELEMENT 1.12.15	6. CATEGORY CODE 212-216	7. PROJECT NUMBER PAYZ913253	8. PROJECT COST($000) 6,900

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PEACEKEEPER-MISSILE OPERATIONS/ MAINTENANCE FACILITY	LS			5,205
MISSILE OPERATIONS FACILITY	SF	24,000	130	(3,120)
DIESEL STORAGE	GA	20,000	3	(60)
INTEGRATED MAINTENANCE FACILITY	SF	15,000	135	(2,025)
SUPPORTING FACILITIES				995
UTILITIES	LS			(650)
PAVEMENTS	LS			(345)
SUBTOTAL				6,200
CONTINGENCY (5%)				310
TOTAL CONTRACT COST				6,510
SUPERVISION, INSPECTION AND OVERHEAD (6%)				391
TOTAL REQUEST				6,901
TOTAL REQUEST (ROUNDED)				6,900

10. Description of Proposed Construction: Reinforced concrete foundations and floor slabs, roof and wall systems as required, site improvements and other necessary support. Includes diesel fuel storage tanks and dispensing outlets.

11. REQUIREMENT: 39,000 LS ADEQUATE: 0 SUBSTANDARD: 0

PROJECT: Construct a missile operations/integrated maintenance facility to support the operational control of the Peacekeeper Rail Garrison Missile System. (New Mission)

REQUIREMENT: A facility to house functions that support the operational control of the Peacekeeper Rail Garrison System. It will house operations, command and security control functions. Space is also provided for maintenance, test, and repair of Peacekeeper electronic and mechanical subassemblies and equipment, and a secure vault for storage of critical components and missile guidance control sets. Diesel storage is required to support fuel requirements for the garrison trains.

CURRENT SITUATION: There are no existing facilities at this location that satisfy or accommodate the various missile operations/integrated maintenance space requirements of the Peacekeeper Rail Garrison System.

IMPACT IF NOT PROVIDED: Garrison system acquisition milestones require that this facility be provided to support final operational capability. A delay of critical facilities would cause an adverse effect in meeting the Peacekeeper Rail Garrison System milestones.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION
FAIRCHILD AIR FORCE BASE, WASHINGTON

4. PROJECT TITLE PEACEKEEPER-MISSILE OPERATIONS /MAINTENANCE FACILITY	5. PROJECT NUMBER PAYZ913253

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 JUL 01
(b) Percent Complete as of Jan 90	35%
(c) Date 35% Designed	89 OCT 10
(d) Date Design Complete	90 JUN 15
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	250
(b) All Other Design Costs	125
(c) Total	375
(d) Contract	300
(e) In-house	75
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION FAIRCHILD AIR FORCE BASE, WASHINGTON	4. PROJECT TITLE ADD TO AND ALTER AIRCRAFT PARKING APRON LIGHTING

5. PROGRAM ELEMENT 1.18.96	6. CATEGORY CODE 812-926	7. PROJECT NUMBER GJKZ860035	8. PROJECT COST($000) 1,600

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ADD TO AND ALTER AIRCRAFT PARKING APRON LIGHTING	LS			947
SUPPORTING FACILITIES				495
UTILITIES	LS			(495)
SUBTOTAL				1,442
CONTINGENCY (5%)				72
TOTAL CONTRACT COST				1,514
SUPERVISION, INSPECTION AND OVERHEAD (6%)				91
TOTAL REQUEST				1,605
TOTAL REQUEST (ROUNDED)				1,600

10. Description of Proposed Construction: Install floodlight towers with high pressure sodium lamps along the aircraft parking apron and replace existing and provide additional maintenance lighting. Includes perimeter lights and other necessary support.

11. REQUIREMENT: As required.

PROJECT: Add to and alter lights on the aircraft parking apron, provide perimeter lights and upgrade existing maintenance lighting systems. (Current Mission)

REQUIREMENT: Adequate lighting to provide the aircraft parking apron with a safe and secure working environment. The lighting is necessary to facilitate the work of nighttime aircraft maintenance crews, increase safety of personnel and equipment during nighttime aircraft movements, and to enhance the security of aircraft and equipment.

CURRENT SITUATION: The flightline parking areas have insufficient or nonexistent lighting for maintenance, safety and security surveillance. The camouflage paint scheme on aircraft has increased the need for adequate ramp lighting during hours of darkness. Night driving of government owned vehicles on the flightline is extremely hazardous because of the low lighting levels. Aircraft towing and taxiing under current poor lighting conditions are unsafe. Performing maintenance and providing security for aircraft is difficult due to inadequate lighting.

IMPACT IF NOT PROVIDED: The potential for accidents is great without additional lighting. Maintenance and security of mission aircraft will continue to be degraded due to insufficient lighting.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

DD FORM 1391, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION FAIRCHILD AIR FORCE BASE, WASHINGTON		
4. PROJECT TITLE ADD TO AND ALTER AIRCRAFT PARKING APRON LIGHTING		5. PROJECT NUMBER GJKZ860035

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 JAN 15
(b) Percent Complete as of Jan 90	60%
(c) Date 35% Designed	89 JUL 31
(d) Date Design Complete	90 MAR 01
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	96
(b) All Other Design Costs	18
(c) Total	114
(d) Contract	80
(e) In-house	34
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION FAIRCHILD AIR FORCE BASE, WASHINGTON	4. PROJECT TITLE PEACEKEEPER-ROAD, RAILROAD AND UTILITIES

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
1.12.15	860-000	PAYZ913256	11,200

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PEACEKEEPER-ROAD, RAILROAD AND UTILITIES	LS			10,070
RAILROAD/ROADS/FENCING	LS			(2,275)
WATER DISTRIBUTION SYSTEM	LS			(354)
HEATING	LS			(1,850)
ELECTRICAL	LS			(2,750)
COMMUNICATIONS	LS			(1,739)
SANITARY SEWER SYSTEM	LS			(1,102)
SUBTOTAL				10,070
CONTINGENCY (5%)				504
TOTAL CONTRACT COST				10,574
SUPERVISION, INSPECTION AND OVERHEAD (6%)				634
TOTAL REQUEST				11,208
TOTAL REQUEST (ROUNDED)				11,200

10. Description of Proposed Construction: Construct roads and utilities, provide rail connections, energy management control system (EMCS) and other necessary support.

11. REQUIREMENT: As required.

PROJECT: Construct access roads, rail and miscellaneous utilities to connect rail garrison facilities to existing base systems. (New Mission)

REQUIREMENT: Roads, rail and utilities to serve the rail garrison facilities. Fiber optic conduit to connect the Garrison with the Wing command post and security control and to connect the Garrison and other support facilities to the existing EMCS.

CURRENT SITUATION: There are insufficient roads, rail and utilities to support the rail garrison and other support facilities.

IMPACT IF NOT PROVIDED: The rail garrison would be inoperable and would not be available to support initial operational capability. A delay of the supporting facilities would adversely affect the Peacekeeper rail garrison mission.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION FAIRCHILD AIR FORCE BASE, WASHINGTON		
4. PROJECT TITLE PEACEKEEPER-ROAD, RAILROAD AND UTILITIES		5. PROJECT NUMBER PAYZ913256

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 JUN 15
(b) Percent Complete as of Jan 90	50%
(c) Date 35% Designed	89 SEP 10
(d) Date Design Complete	90 JUN 15
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	138
(b) All Other Design Costs	57
(c) Total	195
(d) Contract	160
(e) In-house	35
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION MCCHORD AIR FORCE BASE, WASHINGTON	4. COMMAND MILITARY AIRLIFT COMMAND	5. AREA CONST COST INDEX 1.26

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 89	529	4134	1348			9	91	288	64	6,463
b. End FY 1995	448	3366	1341			9	91	288	64	5,607

7. INVENTORY DATA ($000)

a. Total Acreage: (5,745)	
b. Inventory Total As Of: (30 SEP 89)	141,917
c. Authorization Not Yet In Inventory:	9,437
d. Authorization Requested In This Program:	5,200
e. Authorization Included In Following Program: (FY 92)	0
f. Planned In Next Three Program Years:	18,200
g. Remaining Deficiency:	0
h. Grand Total:	174,754

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
141-753	SQUADRON OPERATIONS FACILITY	29,100 SF	5,200	DEC 84	FEB 90
		TOTAL:	5,200		

9a. Future Projects: Included in the Following Program (FY 92) NONE

9b. Future Projects: Typical Planned Next Three Years:

149-962	CONTROL TOWER	1 EA	3,100
610-000	ALTER ADMINISTRATIVE FACILITY	LS	4,500
610-000	MISSION SUPPORT CENTER	247,400 SF	9,200
872-247		37,400 LF	1,400

10. Mission or Major Functions: Supports two military airlift wings (C-141) (one active and one reserve associate), an active C-130 tactical airlift squadron, a TAC fighter interceptor squadron (F-15) and the 25th Air Division Headquarters.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION MCCHORD AIR FORCE BASE, WASHINGTON	4. PROJECT TITLE SQUADRON OPERATIONS FACILITY

5. PROGRAM ELEMENT 4.18.96	6. CATEGORY CODE 141-753	7. PROJECT NUMBER POWY860002L	8. PROJECT COST($000) 5,200

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
SQUADRON OPERATIONS FACILITY	SF	29,100	135	3,929
SUPPORTING FACILITIES				765
COMMUNICATIONS SUPPORT	LS			(100)
UTILITIES	LS			(240)
PAVEMENTS	LS			(200)
SITE IMPROVEMENTS	LS			(225)
SUBTOTAL				4,694
CONTINGENCY (5%)				235
TOTAL CONTRACT COST				4,929
SUPERVISION, INSPECTION AND OVERHEAD (6%)				296
TOTAL REQUEST				5,225
TOTAL REQUEST (ROUNDED)				5,200

10. Description of Proposed Construction: Concrete foundation and floor slab, masonry walls, roof system and fire protection system. Includes emergency generator, briefing room, flight planning operations, life support and other necessary support. Air Conditioning: 50 Tons.

11. REQUIREMENT: 34,900 SF ADEQUATE: 0 SUBSTANDARD: 34,928 SF

PROJECT: Construct a squadron operations facility. (Current Mission)

REQUIREMENT: A facility for mission planning and briefing, for two military airlift squadrons and one tactical airlift squadron. Space must also be provided for the issue and storage of crew flying equipment and for classroom training. This facility will serve as a main control point for all unit flight and flying training activities.

CURRENT SITUATION: Squadron operations are currently conducted in three scattered facilities which are deteriorating and poorly configured, with no aircrew briefing rooms or crew alert areas. Outbound crews must brief in the flight planning room of the base operations facility located 3 miles away. Aircrew mission kits must be transported between facilities daily. The location of the proposed facility would reduce flight line emergency response time from 10 minutes to 2 minutes. Three facilities will be disposed of upon completion of this project.

IMPACT IF NOT PROVIDED: Mission operations will continue to function from scattered, substandard, high resource consuming facilities.

ADDITIONAL: There is a companion base closure project to add 5,800 SF to this facility to support a squadron relocating from Norton AFB. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION

MCCHORD AIR FORCE BASE, WASHINGTON

4. PROJECT TITLE SQUADRON OPERATIONS FACILITY	5. PROJECT NUMBER POWY860002L

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	84 DEC 03
(b) Percent Complete as of Jan 90	95%
(c) Date 35% Designed	85 JUL 30
(d) Date Design Complete	90 FEB 15
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	300
(b) All Other Design Costs	100
(c) Total	400
(d) Contract	
(e) In-house	400
(4) Construction Start	91 MAR

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION F E WARREN AIR FORCE BASE, WYOMING	4. COMMAND STRATEGIC AIR COMMAND	5. AREA CONST COST INDEX 1.04

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 89	592	3126	696							4,414
b. End FY 1995	594	3099	779							4,472

7. INVENTORY DATA ($000)

a. Total Acreage: (5,866)	
b. Inventory Total As Of: (30 SEP 89)	176,046
c. Authorization Not Yet In Inventory:	11,008
d. Authorization Requested In This Program:	9,600
e. Authorization Included In Following Program: (FY 92)	5,300
f. Planned In Next Three Program Years:	20,050
g. Remaining Deficiency:	0
h. Grand Total:	222,004

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	CMPL
214-425	ADD TO AND ALTER TRANSPORTATION COMPLEX	43,500 SF	4,400		
721-312	PEACEKEEPER-DORMITORY	189 PN	5,200	MAY 89	FEB 90
		TOTAL:	9,600		

9a. Future Projects: Included in the Following Program (FY 92)

214-426	TRANSPORTATION COMPLEX, PHASE II	55,000 SF	5,300
		TOTAL:	5,300

9b. Future Projects: Typical Planned Next Three Years:

610-711	DATA PROCESSING FACILITY	8,700 SF	1,550
721-312	ALTER DORMITORIES	278 PN	6,800
812-220	UPGRADE ELECTRICAL DISTRIBUTION SYSTEM	LS	6,000
851-000	UPGRADE BASE ROAD SYSTEM	254,000 SF	5,700

10. Mission or Major Functions: Operational support for Peacekeeper intercontinental missile delivery systems. Active mission support activities include a strategic missile wing consisting of four Minuteman missile squadrons which maintain a continuous alert posture; a communications squadron; and a Military Airlift Command rescue and recovery squadron and detachment, operating UH-IN aircraft.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION F.E. WARREN AIR FORCE BASE, WYOMING	4. PROJECT TITLE ADD TO AND ALTER TRANSPORTATION COMPLEX

5. PROGRAM ELEMENT 1.18.96	6. CATEGORY CODE 214-425	7. PROJECT NUMBER GHLN9210061	8. PROJECT COST($000) 4,400

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ADD TO AND ALTER TRANSPORTATION COMPLEX (PH 1)	SF	43,500		3,530
ADDITION	SF	43,500	80	(3,480)
ALTERATION	LS			(50)
SUPPORTING FACILITIES				435
UTILITIES	LS			(240)
PAVEMENTS	LS			(145)
SITE IMPROVEMENTS	LS			(50)
SUBTOTAL				3,965
CONTINGENCY (5%)				198
TOTAL CONTRACT COST				4,163
SUPERVISION, INSPECTION AND OVERHEAD (6%)				250
TOTAL REQUEST				4,413
TOTAL REQUEST (ROUNDED)				4,400

10. Description of Proposed Construction: Reinforced concrete foundations and floor slab, structural frames, masonry walls and rubberized polyurethane membrane roofing system. Include all utilities support, site improvements, pavements, demolition, minor alterations, and other necessary support. Air Conditioning: 20 Tons.

11. REQUIREMENT: 93,957 SF ADEQUATE: 0 SUBSTANDARD: 36,488 SF

PROJECT: Construct additions to the transportation complex. (Current Mission)t of three phases of a transportation complex.

REQUIREMENT: Adequate facilities, properly sized, configured and located, are required to provide a consolidated transporation complex. New, expanded and upgraded facilities are necessary to improve the span of control, efficiency and functional management of all transportation related activities.

CURRENT SITUATION: Transportation functions are currently housed in 12 separate facilities, many of which are WWII wood structures and are uneconomical to repair or upgrade. The primary vehicle maintenance shop is housed in a 23,600 SF building that was constructed during WWII. It is seriously deteriorated and will be demolished upon completion of this project. Two facilities constructed in the early 1950's serve the remainder of vehicle maintenance plus heated vehicle storage. The remaining nine facilities will be replaced in phase II of this project requirement. A total of seven WWII buildings will be demolished upon completion of this initiative.

IMPACT IF NOT PROVIDED: Transportation functions will continue to operate from dispersed inadequate facilities. This will seriously erode the capability to maintain the base vehicle fleet. Retention of old facilities will continue to require excessive resources for maintenance

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION F.E. WARREN AIR FORCE BASE, WYOMING		
4. PROJECT TITLE ADD TO AND ALTER TRANSPORTATION COMPLEX		5. PROJECT NUMBER GHLN9210061

and utility support. The building used for vehicle maintenance could become uninhabitable as a result of high wind and snow loading. ADDITIONAL: An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost efficient over the life of the project. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION

F.E. WARREN AIR FORCE BASE, WYOMING

4. PROJECT TITLE ADD TO AND ALTER TRANSPORTATION COMPLEX	5. PROJECT NUMBER GHLN9210061

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 OCT 15
(b) Percent Complete as of Jan 90	2%
(c) Date 35% Designed	89 DEC 30
(d) Date Design Complete	90 JUN 30
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	270
(b) All Other Design Costs	67
(c) Total	337
(d) Contract	236
(e) In-house	101
(4) Construction Start	90 NOV

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION F.E.WARREN AIR FORCE BASE, WYOMING	4. PROJECT TITLE PEACEKEEPER-DORMITORY

5. PROGRAM ELEMENT 1.12.15	6. CATEGORY CODE 721-312	7. PROJECT NUMBER GHLN902820	8. PROJECT COST($000) 5,200

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PEACEKEEPER-DORMITORY (189 PN)	SF	42,200	93	3,925
SUPPORTING FACILITIES				760
UTILITIES	LS			(390)
PAVEMENTS	LS			(185)
SITE IMPROVEMENTS	LS			(185)
SUBTOTAL				4,685
CONTINGENCY (5%)				234
TOTAL CONTRACT COST				4,919
SUPERVISION, INSPECTION AND OVERHEAD (6%)				295
TOTAL REQUEST				5,214
TOTAL REQUEST (ROUNDED)				5,200

10. Description of Proposed Construction: Concrete foundation and floor slabs, masonry walls and roof. Includes room-bath-room modules, laundries, storage and lounge areas and other necessary support.
Grade Mix: 160 E1-E4; 27 E5-E6; 2 E7-E9.

11. REQUIREMENT: 1,670 PN ADEQUATE: 1,248 PN SUBSTANDARD: 248 PN
PROJECT: Construct a dormitory. (New Mission)
REQUIREMENT: A major Air Force objective provides unaccompanied enlisted personnel with housing conducive to their proper rest, relaxation and personal well-being. Properly designed and furnished quarters providing some degree of individual privacy are essential to the successful accomplishment of the increasingly complicated and important jobs these people must perform.
CURRENT SITUATION: The existing dormitories are filled to capacity and cannot absorb the additional personnel supporting the Peacekeeper Rail Garrison System.
IMPACT IF NOT PROVIDED: Adequate living quarters will continue to be unavailable resulting in degradation of morale, productivity, and career satisfaction for unaccompanied enlisted personnel.
ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

DD FORM 1391, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION F.E.WARREN AIR FORCE BASE, WYOMING		
4. PROJECT TITLE PEACEKEEPER-DORMITORY		5. PROJECT NUMBER GHLN902820

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 MAY 15
(b) Percent Complete as of Jan 90	90%
(c) Date 35% Designed	89 SEP 10
(d) Date Design Complete	90 FEB 01
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	200
(b) All Other Design Costs	25
(c) Total	225
(d) Contract	205
(e) In-house	20
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION CLASSIFIED LOCATION	4. COMMAND	5. AREA CONST COST INDEX 0.00

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 89										
b. End FY 1994										

7. INVENTORY DATA ($000)

a. Total Acreage: (0)	
b. Inventory Total As Of: (30 SEP 89)	0
c. Authorization Not Yet In Inventory:	0
d. Authorization Requested In This Program:	11,000
e. Authorization Included In Following Program: (FY 92)	73,000
f. Planned In Next Three Program Years:	16,000
g. Remaining Deficiency:	0
h. Grand Total:	100,000

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
141-753	ALTER SQUADRON OPERATIONS FACILITY	51,000 SF	2,000	DEC 89	DEC 90
171-212	FLIGHT SIMULATION TRAINING	20,000 SF	3,400	DEC 89	DEC 90
211-179	ADD TO AND ALTER FUEL SYSTEMS MAINTENANCE DOCK	30,000 SF	2,200	DEC 89	DEC 90
216-642	CONVENTIONAL MUNITIONS SHOP	10,000 SF	950	DEC 89	DEC 90
217-712	ALTER AVIONICS SHOP	15,000 SF	850	DEC 89	DEC 90
422-264	MUNITIONS STORAGE FACILITY	20,000 SF	1,600	DEC 89	DEC 90
		TOTAL:	11,000		

9a. Future Projects: Included in the Following Program (FY 92)

100-000	VARIOUS FACILITIES	LS	73,000
		TOTAL:	73,000

9b. Future Projects: Typical Planned Next Three Years:

100-000	VARIOUS FACILITIES	LS	16,000

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION CLASSIFIED LOCATION	4. PROJECT TITLE ALTER SQUADRON OPERATIONS FACILITY

5. PROGRAM ELEMENT 2.75.96	6. CATEGORY CODE 141-753	7. PROJECT NUMBER HTAC913002	8. PROJECT COST($000) 2,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ALTER SQUADRON OPERATIONS FACILITY	SF	51,000	31	1,581
SUPPORTING FACILITIES				195
UTILITIES	LS			(65)
PAVEMENTS	LS			(65)
SITE IMPROVEMENTS	LS			(65)
SUBTOTAL				1,776
CONTINGENCY (5%)				89
TOTAL CONTRACT COST				1,865
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				121
TOTAL REQUEST				1,986
TOTAL REQUEST (ROUNDED)				2,000

10. Description of Proposed Construction: Alter existing facility to provide security measures, including filtered power, security fence, CCTV, arealighting, alarms and cipher locks.

11. REQUIREMENT: 51,000 SF ADEQUATE: 0 SUBSTANDARD: 51,000 SF

PROJECT: Provide security measures in an existing squadron operations facility. (New Mission)

REQUIREMENT: An adequately sized facility is required to support a fighter aircraft squadron operations. Facility must provide for planning, briefing, training, administration, and critique of combat training crews performing advanced tactical air training in the F-117 aircraft.

CURRENT SITUATION: The base has facilities configured to support normal fighter type aircraft. The F-117 aircraft has unique requirements which must be supported. In order for the base to accommodate its new mission, the proper F-117 unique facilities must be provided. The existing triple squadron operations facility is designed to support fighter training squadrons with no special security requirements. The F-117 operations require use of special security requirements. The intelligence function requires an area to work on Sensitive Compartmented Information (SCI). A SCIF and TEMPEST security enhancements must be provided for the sucessful operations of the F-117 mission on the base.

IMPACT IF NOT PROVIDED: Without a SCIF and security enhancement to the squadron operations facility, the F-117 mission cannot be accommodated at this base.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

1. COMPONENT **AIR FORCE**	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	**2. DATE**

3. INSTALLATION AND LOCATION

CLASSIFIED LOCATION

4. PROJECT TITLE

ALTER SQUADRON OPERATIONS FACILITY

5. PROJECT NUMBER

HTAC913002

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 DEC 12
(b) Percent Complete as of Jan 90	5%
(c) Date 35% Designed	90 JUN 06
(d) Date Design Complete	90 DEC 12
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	110
(b) All Other Design Costs	35
(c) Total	145
(d) Contract	110
(e) In-house	35
(4) Construction Start	91 MAR

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION CLASSIFIED LOCATION	4. PROJECT TITLE FLIGHT SIMULATION TRAINING

5. PROGRAM ELEMENT 2.75.96	6. CATEGORY CODE 171-212	7. PROJECT NUMBER HTAC913001	8. PROJECT COST($000) 3,400

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
F-117 FLIGHT SIMULATION TRAINING	SF	20,000	130	2,600
SUPPORTING FACILITIES				460
UTILITIES	LS			(160)
PAVEMENTS	LS			(145)
SITE IMPROVEMENTS	LS			(155)
SUBTOTAL				3,060
CONTINGENCY (5%)				153
TOTAL CONTRACT COST				3,213
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				209
TOTAL REQUEST				3,422
TOTAL REQUEST (ROUNDED)				3,400

10. Description of Proposed Construction: Reinforced concrete walls, concrete floor slab/foundation with built-up roof and steel framing. Facility will include simulator bay, hydraulic room, mechanical room, briefing rooms, maintenance, storage rooms and other necessary support. Air Conditioning: 60 Tons.

11. REQUIREMENT: 20,000 SF ADEQUATE: 0 SUBSTANDARD: 0

PROJECT: Construct a flight simulator facility. (New Mission)

REQUIREMENT: A new flight simulator facility is required to house the F-117 Weapons System Trainer (WST) in support of F-117 flight operations. This simulator will provide for instrument and mission procedures training to maintain proficiency of tactical aircrews at reduced costs. This new F-117 WST requires a facility with a large open bay, ceiling height of 32' and two levels of mezzanines around open bay.

CURRENT SITUATION: The base has facilities configured to support normal fighter type aircraft. The F-117 aircraft has unique requirements which must be supported. In order for the base to accommodate its new mission, the proper F-117 unique facilities must be provided. The existing simulator facility is not large enough, nor can it be expanded, to accommodate the F-117 simulator. A new facility must be provided to assure pilot training is maintained at an acceptable level. The existing facility will be altered for other beddown usage.

IMPACT IF NOT PROVIDED: Proficiency of pilots will depend on classroom academics and more actual flying hours. The result will be a less than desireable training program at a much greater cost. A loss of mission effectiveness will result.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION CLASSIFIED LOCATION		
4. PROJECT TITLE FLIGHT SIMULATION TRAINING		5. PROJECT NUMBER HTAC913001

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 DEC 12
(b) Percent Complete as of Jan 90	5%
(c) Date 35% Designed	90 JUN 06
(d) Date Design Complete	90 DEC 12
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	240
(b) All Other Design Costs	65
(c) Total	305
(d) Contract	240
(e) In-house	65
(4) Construction Start	91 MAR

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION CLASSIFIED LOCATION	4. PROJECT TITLE ADD TO AND ALTER FUEL SYSTEMS MAINTENANCE DOCK

5. PROGRAM ELEMENT 2.75.96	6. CATEGORY CODE 211-179	7. PROJECT NUMBER HTAC913006	8. PROJECT COST($000) 2,200

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ADD TO AND ALTER FUEL SYSTEMS MAINTENANCE DOCK	SF	30,000	56	1,680
SUPPORTING FACILITIES				285
UTILITIES	LS			(95)
PAVEMENTS	LS			(95)
SITE IMPROVEMENTS	LS			(95)
SUBTOTAL				1,965
CONTINGENCY (5%)				98
TOTAL CONTRACT COST				2,063
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				134
TOTAL REQUEST				2,197
TOTAL REQUEST (ROUNDED)				2,200

10. Description of Proposed Construction: Add reinforced concrete floors and foundations, steel framed pre-engineered metal building with steel deck roofing. Includes access aprons and roads, parking, specialized shop areas, toilets, mechanical room, administrative space, and exhaust ventilation.

11. REQUIREMENT: 30,000 SF ADEQUATE: 17,195 SF SUBSTANDARD: 0

PROJECT: Add to a fuels systems maintenance facility. (New Mission)

REQUIREMENT: To provide adequately sized and properly configured all-weather maintenance capability for fuel systems and fuel system components for assigned F-117 aircraft. The facility must meet all technical, environmental and fire safety requirements to facilitate safe and effective maintenance of aircraft fuels systems.

CURRENT SITUATION: The base has facilities configured to support normal fighter type aircraft. The F-117 aircraft has unique requirements which must be supported. In order for the base to accommodate its new mission, the proper F-117 unique facilities must be provided. The existing fuel system maintenance hangar is of insufficient size and improperly configured to accommodate the F-117 aircraft. The existing 17,195 SF facility can only accommodate two of the required three F-117 maintenance spaces. In addition the hangar is not configured for the unique F-117 fuel cell maintenance requirements.

IMPACT IF NOT PROVIDED: Fuel systems cannot be maintained properly on assigned F-117 aircraft resulting in a degraded mission capability.

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION CLASSIFIED LOCATION		
4. PROJECT TITLE ADD TO AND ALTER FUEL SYSTEMS MAINTENANCE DOCK		5. PROJECT NUMBER HTAC913006

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 DEC 12
(b) Percent Complete as of Jan 90	5%
(c) Date 35% Designed	90 JUN 06
(d) Date Design Complete	90 DEC 12
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	140
(b) All Other Design Costs	45
(c) Total	185
(d) Contract	140
(e) In-house	45
(4) Construction Start	91 MAR

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION CLASSIFIED LOCATION	4. PROJECT TITLE MUNITIONS STORAGE FACILITY

5. PROGRAM ELEMENT 2.75.96	6. CATEGORY CODE 422-264	7. PROJECT NUMBER HTAC913004	8. PROJECT COST($000) 1,600

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
MUNITIONS STORAGE FACILITY	SF	20,000	55	1,100
SUPPORTING FACILITIES				330
UTILITIES	LS			(110)
PAVEMENTS	LS			(110)
SITE IMPROVEMENTS	LS			(110)
SUBTOTAL				1,430
CONTINGENCY (5%)				72
TOTAL CONTRACT COST				1,502
SUPERVISION, INSPECTION AND OVERHEAD (6%)				90
TOTAL REQUEST				1,592
TOTAL REQUEST (ROUNDED)				1,600

10. Description of Proposed Construction: Construct four above ground, reinforced concrete munitions storage igloos. Project includes earth cover, double steel doors, gravity ventilator, hoist system, security system, access pavements, utilities and other necessary support.

11. REQUIREMENT: As required.
PROJECT: Construct four igloos for storage of munitions and associated equipment.(New Mission)
REQUIREMENT: Storage space capable of accommodating munitions assigned with the F-117 aircraft.
CURRENT SITUATION: The base has facilities configured to support normal fighter type aircraft. The F-117 aircraft has unique requirement which must be supported. In order for the base to accommodate its new mission, the proper F-117 unique facilities must be provided. The F-117 mission will be a tactical fighter wing to replace the existing fighter training wing. The result will be a large increase in the types and quantity of munitions to be stored. The base does not have sufficient facilities to store the additional munitions inventory.
IMPACT IF NOT PROVIDED: Required munitions cannot be stored on base unless additional facilities are constructed. Without an on-base munitions storage capability, the F-117 mission cannot be supported.

DD FORM 1391, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION CLASSIFIED LOCATION		
4. PROJECT TITLE MUNITIONS STORAGE FACILITY		5. PROJECT NUMBER HTAC913004

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 DEC 12
(b) Percent Complete as of Jan 90	5%
(c) Date 35% Designed	90 JUN 06
(d) Date Design Complete	90 DEC 12
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	65
(b) All Other Design Costs	65
(c) Total	130
(d) Contract	90
(e) In-house	40
(4) Construction Start	91 MAR

b. Equipment associated with this project will be provided.from other appropriations: N/A

DEPARTMENT OF THE AIR FORCE

MCMXLVII

FY1991

BUDGET ESTIMATE SUBMISSION

MILITARY CONSTRUCTION AND FAMILY HOUSING

JUSTIFICATION DATA
SUBMITTED TO CONGRESS

JANUARY 1990

VOLUME II

OUTSIDE THE UNITED STATES
VARIOUS WORLDWIDE
FAMILY HOUSING

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION ANTIGUA AIR STATION, ANTIGUA ISLAND, WEST INDIES	4. COMMAND AIR FORCE SYSTEMS COMMAND	5. AREA CONST COST INDEX 1.80

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 89	1	1								2
b. End FY 1995	1	1								2

7. INVENTORY DATA ($000)

a. Total Acreage: (578)	
b. Inventory Total As Of: (30 SEP 89)	8,509
c. Authorization Not Yet In Inventory:	0
d. Authorization Requested In This Program:	8,200
e. Authorization Included In Following Program: (FY 92)	0
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	0
h. Grand Total:	16,709

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	CMPL
371-475	INSTRUMENTATION FACILITY	21,600 SF	8,200	DEC 88	APR 90
		TOTAL:	8,200		

9a. Future Projects: Included in the Following Program (FY 92) NONE

9b. Future Projects: Typical Planned Next Three Years:

10. Mission or Major Functions: A tracking station for the Eastern Test Range. Additionally, the Air Force is responsible for supplying all US military on the island (principally a Navy port, in addition to the contract-run missile-tracking annex).

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION ANTIGUA AIR STATION, ANTIGUA ISLAND, WEST INDIES	4. PROJECT TITLE INSTRUMENTATION FACILITY

5. PROGRAM ELEMENT 7.80.22	6. CATEGORY CODE 371-475	7. PROJECT NUMBER ALMY913101	8. PROJECT COST($000) 8,200

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
INSTRUMENTATION FACILITY	SF	21,600	240	5,184
SUPPORTING FACILITIES				2,155
UTILITIES	LS			(1,570)
PAVEMENTS	LS			(310)
SITE IMPROVEMENTS	LS			(275)
SUBTOTAL				7,339
CONTINGENCY (5%)				367
TOTAL CONTRACT COST				7,706
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				501
TOTAL REQUEST				8,207
TOTAL REQUEST (ROUNDED)				8,200
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(42,000)

10. Description of Proposed Construction: Concrete foundations for antennas, utility building for generators, switchgear, air conditioning, fire protection, parking and roadwork, communication support, security fence, perimeter lighting, electro-magnetic impulse shielding and other necessary support. Air Conditioning: 100 Tons.

11. REQUIREMENT: 21,600 SF ADEQUATE: 0 SUBSTANDARD: 17,934 SF

PROJECT: Construct an instrumentation and control center facility. (New Mission)

REQUIREMENT: A facility to consolidate new and replace aging telemetry, command and radar structures. Facility provides space to house new automation equipment to support critical mid-range tracking and to support space and ballistic missile tests.

CURRENT SITUATION: The technical facilities are widely dispersed temporary metal buildings that are over 25 years old and have exceeded their useful life. Being separated requires additional personnel at each location to operate the equipment, provide security, and maintain critical power at each facility. Roof leaks are maintenance intensive and threaten the reliability of millions of dollars of sensitive electronic instrumentation equipment. Implementation of sophisticated communications programs requires extensive interface equipment, secure circuits for data transfer between facilities, and special security at each location. Facilities at Antigua are fully utilized and are not capable of expanding to meet projected needs. Four existing facilities will be demolished upon completion of this project.

IMPACT IF NOT PROVIDED: Antigua Air Station will not be able to accommodate new instrumentation required to fulfill the rapidly expanding space and ballistic missile test missions. Millions of dollars of

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION ANTIGUA AIR STATION, ANTIGUA ISLAND, WEST INDIES		
4. PROJECT TITLE INSTRUMENTATION FACILITY		5. PROJECT NUMBER ALMY913101

electronic equipment could be lost as a result of the serious facility maintenance problems. Potential operations and maintenance cost savings of $4 million to $6 million annually will not be realized.
ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION ANTIGUA AIR STATION, ANTIGUA ISLAND, WEST INDIES		
4. PROJECT TITLE INSTRUMENTATION FACILITY		5. PROJECT NUMBER ALMY913101

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 DEC 01
(b) Percent Complete as of Jan 90	90%
(c) Date 35% Designed	89 APR 01
(d) Date Design Complete	90 APR 15
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	450
(b) All Other Design Costs	100
(c) Total	550
(d) Contract	475
(e) In-house	75
(4) Construction Start	91 FEB

b. Equipment associated with this project will be provided from other appropriations:

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
REMOTE AUTOMATION	3080	1990-91	10000
RADAR SYSTEM	3080	1990-92	7000
TELEMETRY SYSTEM	3080	1990-91	13000
INTEGRATION EQUIPMENT	3080	1991	12000

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION VARIOUS LOCATIONS, CANADA	4. COMMAND TACTICAL AIR COMMAND	5. AREA CONST COST INDEX 1.49

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 89										
b. End FY 1994										

7. INVENTORY DATA ($000)

a. Total Acreage: (0)	
b. Inventory Total As Of: (30 SEP 89)	0
c. Authorization Not Yet In Inventory:	12,000
d. Authorization Requested In This Program:	18,300
e. Authorization Included In Following Program: (FY 92)	33,688
f. Planned In Next Three Program Years:	7,046
g. Remaining Deficiency:	0
h. Grand Total:	71,034

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
100-000	FORWARD OPERATING LOCATIONS	LS	18,300		
		TOTAL:	18,300 *		

9a. Future Projects: Included in the Following Program (FY 92)

100-000	FORWARD OPERATING LOCATIONS	LS	33,688
		TOTAL:	33,688

9b. Future Projects: Typical Planned Next Three Years:

100-000	FORWARD OPERATING LOCATIONS	LS	7,046

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

* Total appropriation request is 18.3 million
New authorization requested is 6.3 million
$12 million was authorized in FY 1990

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION VARIOUS LOCATIONS, CANADA	4. PROJECT TITLE FORWARD OPERATING LOCATIONS

5. PROGRAM ELEMENT 1.21.16	6. CATEGORY CODE 100-000	7. PROJECT NUMBER VARL913002	8. PROJECT COST($000) 18,300

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
FORWARD OPERATING LOCATIONS				
OPERATING BASES	LS			18,300
SUBTOTAL				18,300
TOTAL CONTRACT COST				18,300
TOTAL REQUEST				18,300
TOTAL REQUEST (ROUNDED)				18,300 *

* Appropriation requested = 18.3 Mil
New authorization requested = 6.3 Mil
12 Mil was authorized in FY 1990

10. Description of Proposed Construction: Provide proportional share of upgrade costs for Canadian Forward Operating Locations.

11. REQUIREMENT: As required.
PROJECT: Provides the US proportional share of upgrade costs for Canadian Forward Operating Locations (FOLS). (New Mission)
REQUIREMENT: Minimum facilities at Canadian FOLS to support aircraft required for the detection, identification and interception of intruding weapon systems. Costs are to be shared on a 50/50 basis between the United States and Canada. This requirement has been validated by the JCS and a NORAD Statement of Operational Requirement.
CURRENT SITUATION: The United States of America, represented by the Secretary of Defense, and Canada, represented by the Minister of National Defense, have executed a Memorandum of Understanding (MOU) to modernize the North American Air Defense System. One of nine major components of the MOU is the upgrade of FOLS to provide minimum aircraft operational capability. The agreement stipulates that Canada is responsible for the design, contracting, management and construction of all projects. Currently, US forces cannot operate from the desired FOLS because existing austere airfields do not have the minimum required airfield pavements or operational facilities.
IMPACT IF NOT PROVIDED: US commitments to the joint US/Canadian defense of the North American continent will not be met. NORAD's capability to direct, identify and intercept the current and projected threat against North America will be jeopardized.
ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION BITBURG AIR BASE, GERMANY	4. COMMAND UNITED STATES AIR FORCES IN EUROPE	5. AREA CONST COST INDEX 1.15

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 89	328	3551	142				23	393	220	4,657
b. End FY 1995	335	3663	142				23	393	220	4,776

7. INVENTORY DATA ($000)

a. Total Acreage: (1,602)	
b. Inventory Total As Of: (30 SEP 89)	88,716
c. Authorization Not Yet In Inventory:	7,190
d. Authorization Requested In This Program:	2,000
e. Authorization Included In Following Program: (FY 92)	6,200
f. Planned In Next Three Program Years:	13,300
g. Remaining Deficiency:	0
h. Grand Total:	117,406

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	CMPL
740-674	ADD TO PHYSICAL FITNESS CENTER	14,000 SF	2,000	JUN 85	JUN 90
		TOTAL:	2,000		

9a. Future Projects: Included in the Following Program (FY 92)

121-122	IN-SHELTER REFUELING	LS	2,200
721-312	ADD TO AND ALTER DORMITORY	246 PN	4,000
		TOTAL:	6,200

9b. Future Projects: Typical Planned Next Three Years:

411-135	JET FUEL STORAGE	15,750 BL	4,400
721-312	ADD TO AND ALTER DORMITORY	246 PN	4,400
721-312	ALTER DORMITORY	246 PN	4,500

10. Mission or Major Functions: This base hosts a wing headquarters which is responsible for management, command, control and direction for USAFE units assigned and three tactical fighter squadrons operating F-15 aircraft which support contingency and war plans.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION BITBURG AIR BASE, GERMANY	4. PROJECT TITLE ADD TO PHYSICAL FITNESS CENTER

5. PROGRAM ELEMENT 2.75.96	6. CATEGORY CODE 740-674	7. PROJECT NUMBER BSGX899002	8. PROJECT COST($000) 2,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ADD TO PHYSICAL FITNESS CENTER	SF	14,000	120	1,680
SUPPORTING FACILITIES				125
COMMUNICATIONS SUPPORT	LS			(10)
UTILITIES	LS			(65)
SITE IMPROVEMENTS	LS			(50)
SUBTOTAL				1,805
CONTINGENCY (5%)				90
TOTAL CONTRACT COST				1,895
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				123
TOTAL REQUEST				2,018
TOTAL REQUEST (ROUNDED)				2,000

10. Description of Proposed Construction: Reinforced concrete foundation, floor slab, masonry walls and roof system. Areas include exercise room, basketball/volleyball, handball/squash courts, equipment storage and locker rooms. Includes fire protection and all other necessary support.

11. REQUIREMENT: 54,000 SF ADEQUATE: 40,000 SF SUBSTANDARD: 0

PROJECT: Add to the physical fitness center. (Current Mission)

REQUIREMENT: Functional, adequately-sized physical fitness centers are an essential feature of the military living and working environment. Modern facilities providing for exercise, as well as team and individual sports, significantly contribute to the physical development and improved morale of assigned personnel and are essential to Air Force retention efforts.

CURRENT SITUATION: The present facility was originally designed to support a military population of 4,777 people. The base population has since doubled and the physical fitness center is now too small to support the base population. Over 20 racquetball/handball court reservation requests are turned down per day because of the limited number of courts. The male and female locker rooms are too small and restrict participation in sports activities. The gymnasium is severely overcrowded, and, during peak lunch and evening hours, people are turned away because of limited space. There are no typical American athletic facilities in the off-base community.

IMPACT IF NOT PROVIDED: Physical fitness and weight control programs will not be adequately accomplished in the existing undersized facility. Physical training programs will continue to suffer, impacting morale and detracting from the Air Force's ability to retain highly trained and motivated people.

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION

BITBURG AIR BASE, GERMANY

4. PROJECT TITLE ADD TO PHYSICAL FITNESS CENTER	5. PROJECT NUMBER BSGX899002

ADDITIONAL: This project is not eligible for NATO funding. This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION

BITBURG AIR BASE, GERMANY

4. PROJECT TITLE ADD TO PHYSICAL FITNESS CENTER	5. PROJECT NUMBER BSGX899002

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	85 JUN 24
(b) Percent Complete as of Jan 90	60%
(c) Date 35% Designed	86 JAN 30
(d) Date Design Complete	90 JUN 30
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	53
(b) All Other Design Costs	41
(c) Total	94
(d) Contract	53
(e) In-house	41
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION HAHN AIR BASE, GERMANY	4. COMMAND UNITED STATES AIR FORCES IN EUROPE	5. AREA CONST COST INDEX 1.15

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 89	354	4375	140				8	147	178	5,202
b. End FY 1995	341	4306	128				8	147	178	5,108

7. INVENTORY DATA ($000)

a. Total Acreage: (1,514)	89,467
b. Inventory Total As Of: (30 SEP 89)	18,410
c. Authorization Not Yet In Inventory:	4,300
d. Authorization Requested In This Program:	7,050
e. Authorization Included In Following Program: (FY 92)	10,525
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	
h. Grand Total:	129,752

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	CMPL
842-245	UPGRADE WATER STORAGE AND DISTRIBUTION SYSTEM	LS	4,300	AUG 86	MAR 89
		TOTAL:	4,300		

9a. Future Projects: Included in the Following Program (FY 92)

141-182	SEMIHARDENED AIRCRAFT SHELTERS	2 EA	3,900
214-425	VEHICLE MAINTENANCE FACILITY	18,000 SF	3,150
		TOTAL:	7,050

9b. Future Projects: Typical Planned Next Three Years:

141-456	MAINTENANCE FACILITY	5,000 SF	1,325
610-144	COMBAT AMMO CONTROL CENTER	6,250 SF	1,950
721-312	ADD TO AND ALTER DORMITORY	102 PN	2,250
740-674	ADD TO PHYSICAL FITNESS CENTER	14,400 SF	2,000
831-165	UPGRADE SANITARY SEWAGE TREATMENT SYSTEM	LS	3,000

10. Mission or Major Functions: This base hosts a tactical fighter wing which is responsible for management, command, control and direction for three tactical fighter squadrons operating F-16 aircraft supporting contingency and war plans.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION HAHN AIR BASE, GERMANY	4. PROJECT TITLE UPGRADE WATER STORAGE AND DISTRIBUTION SYSTEM

5. PROGRAM ELEMENT 2.75.96	6. CATEGORY CODE 842-245	7. PROJECT NUMBER JWEC881001	8. PROJECT COST($000) 4,300

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
UPGRADE WATER STORAGE AND DISTRIBUTION SYSTEM	LS			3,565
SUPPORTING FACILITIES				280
SITE IMPROVEMENTS	LS			(55)
PAVEMENTS	LS			(90)
UTILITIES	LS			(135)
SUBTOTAL				3,845
CONTINGENCY (5%)				192
TOTAL CONTRACT COST				4,037
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				262
TOTAL REQUEST				4,299
TOTAL REQUEST (ROUNDED)				4,300

10. Description of Proposed Construction: Construct concrete water reservoir, replace existing water mains, extend water distribution system and install new fire hydrants. Includes pavement repair and other necessary support.

11. REQUIREMENT: As required.

PROJECT: Upgrade existing water distribution and storage system. (Current Mission)

REQUIREMENT: An adequate water distribution system to provide water in sufficient quantity and pressure for domestic, industrial and fire fighting purposes.

CURRENT SITUATION: The present distribution system is over 30 years old and has insufficient water capacity for domestic, industrial and fire protection requirements. Fire fighting equipment cannot operate at maximum capacity because the distribution system has insufficient water flow. Additionally, the system does not have the capacity to support more than a single pumper at a time. The existing water reservoir is too small; it hampered fire fighting efforts during a warehouse fire in 1986 that caused $750,000 worth of damage. Lack of a loop system cuts off entire areas of the base during water main breaks.

IMPACT IF NOT PROVIDED: The base will continue to have inadequate water capacity for fire fighting and potable systems. A major fire in either the industrial or recreational areas could result in a massive fire loss.

ADDITIONAL: This project is not eligible for NATO funding. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION HAHN AIR BASE, GERMANY		
4. PROJECT TITLE UPGRADE WATER STORAGE AND DISTRIBUTION SYSTEM		5. PROJECT NUMBER JWEC881001

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	86 AUG 19
(b) Percent Complete as of Jan 90	100%
(c) Date 35% Designed	88 SEP 15
(d) Date Design Complete	89 MAR 01
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	112
(b) All Other Design Costs	98
(c) Total	210
(d) Contract	112
(e) In-house	98
(4) Construction Start	90 FEB

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION RHEIN MAIN AIR BASE, GERMANY	4. COMMAND MILITARY AIRLIFT COMMAND	5. AREA CONST COST INDEX 1.15

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 89	476	3608	194	63	33	198	121	560	283	5,536
b. End FY 1995	468	3587	192	63	33	198	121	560	283	5,505

7. INVENTORY DATA ($000)

a. Total Acreage: (909)	
b. Inventory Total As Of: (30 SEP 89)	65,341
c. Authorization Not Yet In Inventory:	18,640
d. Authorization Requested In This Program:	3,250
e. Authorization Included In Following Program: (FY 92)	2,150
f. Planned In Next Three Program Years:	24,900
g. Remaining Deficiency:	0
h. Grand Total:	114,281

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
131-118	COMMUNICATIONS CONTROL CENTER	5,900 SF	3,250	FEB 89	FEB 90
		TOTAL:	3,250		

9a. Future Projects: Included in the Following Program (FY 92)

740-884	ADD TO CHILD DEVELOPMENT CENTER	12,200 SF	2,150
		TOTAL:	2,150

9b. Future Projects: Typical Planned Next Three Years:

113-321	AIRCRAFT PARKING	29,700 SY	3,200
141-232	AERIAL DELIVERY FACILITY	33,400 SF	5,300
218-852	SURVIVAL EQUIPMENT SHOP	10,400 SF	1,650
442-758	PASSIVE DEFENSE STORAGE WARFHOUSE	14,000 SF	1,550
721-312	DORMITORY	60,000 SF	8,200

10. Mission or Major Functions: This base supports a tactical airlift wing, an aeromedical airlift squadron, a Tactical Airlift Squadron, a special operations wing, a facility checking squadron, a communications group and an aerial port squadron. This base is the principle embarkation/debarkation point for aircraft arriving from and departing West Germany for the CONUS.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION RHEIN-MAIN AIR BASE, GERMANY	4. PROJECT TITLE COMMUNICATIONS CONTROL CENTER

5. PROGRAM ELEMENT 4.18.96	6. CATEGORY CODE 131-118	7. PROJECT NUMBER UDHY903004	8. PROJECT COST($000) 3,250

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
COMMUNICATIONS CONTROL CENTER	SF	5,900	390	2,301
SUPPORTING FACILITIES				610
UTILITIES	LS			(325)
PAVEMENTS	LS			(140)
SITE IMPROVEMENTS	LS			(145)
SUBTOTAL				2,911
CONTINGENCY (5%)				146
TOTAL CONTRACT COST				3,057
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				199
TOTAL REQUEST				3,256
TOTAL REQUEST (ROUNDED)				3,250

10. Description of Proposed Construction: A semi-hardened, chemical/biological protected communications facility to house a technical control center, microwave station, logistics readiness center and other necessary support.

11. REQUIREMENT: 5,900 SF ADEQUATE: 0 SUBSTANDARD: 2,216 SF

PROJECT: Construct a survivable communications control center. (Current Mission)

REQUIREMENT: A survivable facility to protect critical communications systems supporting the strategic airlift mission. The Technical Control Facility is the central test point for checking circuits to ensure they are operating within designed parameters. Without this center, the base would lose access to the worldwide Defense Communications System. The center is the focal point for management of the base and regional communications system.

CURRENT SITUATION: The Technical Control Center, microwave station and the Logistics Readiness Center are located in the basement of a dormitory. This is a soft facility that does not provide survivability or security. The building was not designed to support this function, consequently equipment, switches, and personnel have had to be installed in a make-shift, inefficient arrangement. The Technical Control Center and the microwave center have no chemical protection and it is very difficult to control access to the facility because of its location in the dormitory. More logically configured space will allow the installation of backup switching equipment which will permit voice communications to key organizations in the event of the loss of the main switch. There will also be a secure area to locate a Defense Data Network (DDN) switch to provide connectivity to this highly survivable worldwide data network.

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION RHEIN-MAIN AIR BASE, GERMANY		
4. PROJECT TITLE COMMUNICATIONS CONTROL CENTER		5. PROJECT NUMBER UDHY903004

IMPACT IF NOT PROVIDED: Vital communication functions will remain vulnerable; loss of these critical functions would result in the loss of most communications off base and the loss of the Defense Communications System link between key communication stations in Germany.
ADDITIONAL: This project is not eligible for NATO funding. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION RHEIN-MAIN AIR BASE, GERMANY		
4. PROJECT TITLE COMMUNICATIONS CONTROL CENTER		5. PROJECT NUMBER UDHY903004

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 FEB 28
(b) Percent Complete as of Jan 90	85%
(c) Date 35% Designed	89 APR 30
(d) Date Design Complete	90 FEB 28
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	175
(b) All Other Design Costs	30
(c) Total	205
(d) Contract	175
(e) In-house	30
(4) Construction Start	91 APR

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION SPANGDAHLEM AIR BASE, GERMANY	4. COMMAND UNITED STATES AIR FORCES IN EUROPE	5. AREA CONST COST INDEX 1.15

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 89	330	3558	124				95	1149	110	5,366
b. End FY 1995	331	3585	123				95	1149	110	5,393

7. INVENTORY DATA ($000)

a. Total Acreage: (1,350)	
b. Inventory Total As Of: (30 SEP 89)	65,279
c. Authorization Not Yet In Inventory:	12,610
d. Authorization Requested In This Program:	9,250
e. Authorization Included In Following Program: (FY 92)	2,600
f. Planned In Next Three Program Years:	17,750
g. Remaining Deficiency:	0
h. Grand Total:	107,489

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
831-165	UPGRADE SEWAGE TREATMENT PLANT/SEWER SYSTEM	LS	4,350	DEC 88	FEB 90
842-245	ADD TO AND ALTER WATER STORAGE AND DISTRIBUTION SYSTEM	LS	4,900	SEP 88	JUL 89
		TOTAL:	9,250		

9a. Future Projects: Included in the Following Program (FY 92)

721-312	ALTER DORMITORIES	102 PN	2,600
		TOTAL:	2,600

9b. Future Projects: Typical Planned Next Three Years:

121-122	IN-SHELTER REFUELING	LS	4,100
422-264	STORAGE IGLOO	4 EA	1,400
442-758	PASSIVE DEFENSE EQUIPMENT STORAGE FACILITY	4,000 SF	1,600
610-144	COMBAT AMMUNITION CONTROL CENTER	6,560 SF	1,150
740-674	PHYSICAL FITNESS CENTER	14,700 SF	1,900

10. Mission or Major Functions: This base hosts a tactical fighter wing, which is responsible for management, command, control and direction for three tactical fighter squadrons operating F-4/F-16 aircraft in support of contingency and war plans.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION SPANGDAHLEM AIR BASE, GERMANY	4. PROJECT TITLE UPGRADE SEWAGE TREATMENT PLANT/SEWER SYSTEM

5. PROGRAM ELEMENT 2.75.96	6. CATEGORY CODE 831-165	7. PROJECT NUMBER VYHK903004	8. PROJECT COST($000) 4,350

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
UPGRADE SEWAGE TREATMENT PLANT/SEWER SYSTEM	LS			3,357
SUPPORTING FACILITIES				355
UTILITIES	LS			(130)
PAVEMENTS	LS			(95)
SITE IMPROVEMENTS	LS			(130)
SUBTOTAL				3,712
CONTINGENCY (10%)				371
TOTAL CONTRACT COST				4,083
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				265
TOTAL REQUEST				4,348
TOTAL REQUEST (ROUNDED)				4,350

10. Description of Proposed Construction: Upgrade the sewage treatment plant. Includes modifying the main collection and distribution chamber, sedimentation tank, fumes tank, trickling filter, floatation grit chamber, screening plant and controls room. Extend the sanitary sewer system. Includes site improvements and all other necessary support.

11. REQUIREMENT: As required.

PROJECT: Upgrade the sewage treatment and disposal plant and extend sanitary sewer system. (Current Mission)

REQUIREMENT: An adequate sewage collection and disposal system to meet the requirements of the base and satisfy host nation environmental standards.

CURRENT SITUATION: The existing plant is over 25 years old and undersized for the current base population. The plant capacity is 250,000 gallons per day; however, normal daily flow now exceeds 500,000 gallons per day. This situation is compounded during rain storms when flow can exceed four times the current design capacity. In addition, the existing sewer system does not service all the base facilities.

IMPACT IF NOT PROVIDED: Overloading the current sewage treatment plant will persist. Potential violations to host nation environmental control laws will persist.

ADDITIONAL: This project is not eligible for NATO funding. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

DD FORM 1391, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION SPANGDAHLEM AIR BASE, GERMANY		
4. PROJECT TITLE UPGRADE SEWAGE TREATMENT PLANT/SEWER SYSTEM		5. PROJECT NUMBER VYHK903004

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 DEC 05
(b) Percent Complete as of Jan 90	90%
(c) Date 35% Designed	89 JUN 10
(d) Date Design Complete	90 FEB 02
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	400
(b) All Other Design Costs	65
(c) Total	465
(d) Contract	400
(e) In-house	65
(4) Construction Start	90 MAR

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION SPANGDAHLEM AIR BASE, GERMANY	4. PROJECT TITLE ADD TO AND ALTER WATER STORAGE AND DISTRIBUTION SYSTEM

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
2.75.96	842-245	VYHK903015	4,900

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ADD TO AND ALTER WATER STORAGE AND DISTRIBUTION SYSTEM	LS			4,119
SUPPORTING FACILITIES				260
UTILITIES	LS			(105)
PAVEMENTS	LS			(80)
SITE IMPROVEMENTS	LS			(75)
SUBTOTAL				4,379
CONTINGENCY (5%)				219
TOTAL CONTRACT COST				4,598
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				299
TOTAL REQUEST				4,897
TOTAL REQUEST (ROUNDED)				4,900

10. Description of Proposed Construction: Install new water mains and upgrade existing water distribution system. Includes new hydrants, shut off valves, cathodic protection, fixtures and other necessary support.

11. REQUIREMENT: As required.

PROJECT: Add to and alter the water distribution and storage system. (Current Mission)

REQUIREMENT: An adequate water distribution system to provide water in sufficient quantity and pressure for domestic, industrial and fire fighting purposes.

CURRENT SITUATION: The base water distribution system is over 25 years old and is inadequate for the base population, which has more than doubled in size. The southeast area of the base has restricted water flow creating a health and fire protection hazard. The only means of combating a fire in this area of the base is to transport the water using fire trucks. The facilities have restricted sanitary facilities because the water distribution system has insufficient water pressure. A looped water distribution system does not exist and water service to facilities must be interrupted each time repairs are performed on the system.

IMPACT IF NOT PROVIDED: The base will continue to have inadequate water capacity for fire fighting and potable systems. The southeast side of the base will continue to have both restricted water service and limited fire protection. Water pressure will remain inadequate for fire protection. Facilities will continue to be without water during repairs because a loop system is not available.

ADDITIONAL: This project is not eligible for NATO funding. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION SPANGDAHLEM AIR BASE, GERMANY		
4. PROJECT TITLE ADD TO AND ALTER WATER STORAGE AND DISTRIBUTION SYSTEM		5. PROJECT NUMBER VYHK903015

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 SEP 16
(b) Percent Complete as of Jan 90	100%
(c) Date 35% Designed	89 JAN 24
(d) Date Design Complete	89 JUL 30
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	282
(b) All Other Design Costs	47
(c) Total	329
(d) Contract	282
(e) In-house	47
(4) Construction Start	90 FEB

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION MARIENFELDE COMMUNICATIONS STATION, WEST BERLIN, GERMANY	4. COMMAND UNITED STATES AIR FORCES IN EUROPE	5. AREA CONST COST INDEX 1.15

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 88										
b. End FY 1994										

7. INVENTORY DATA ($000)

a. Total Acreage: (0)	
b. Inventory Total As Of: (30 SEP 89)	0
c. Authorization Not Yet In Inventory:	0
d. Authorization Requested In This Program:	1,621
e. Authorization Included In Following Program: (FY 92)	0
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	0
h. Grand Total:	1,621

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
141-456	UPGRADE OPERATIONS FACILITY	LS	1,621	JUL 88	OCT 89
		TOTAL:	1,621		

9a. Future Projects: Included in the Following Program (FY 92) NONE

9b. Future Projects: Typical Planned Next Three Years:

10. Mission or Major Functions: Electronic Security Command and intelligence mission.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION MARIENFELDE COMMUNICATIONS STATION WEST BERLIN, GERMANY	4. PROJECT TITLE UPGRADE OPERATIONS FACILITY

5. PROGRAM ELEMENT 3.10.11 NFIP	6. CATEGORY CODE 141-456	7. PROJECT NUMBER PENL903160	8. PROJECT COST($000) 1,621

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
UPGRADE OPERATIONS FACILITY	LS			144
SUPPORTING FACILITIES				1,240
UTILITIES	LS			(1,240)
SUBTOTAL				1,384
CONTINGENCY (10%)				138
TOTAL CONTRACT COST				1,522
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				99
TOTAL REQUEST				1,621

10. Description of Proposed Construction: Electrical and mechanical system upgrades to include diesel generator set, line conditioners, frequency converters, secondary distribution lines, water chiller, air handling units, environmental controls, heat exchanger and air distribution balancing modifications. Also includes structural changes and other necessary support.

11. REQUIREMENT: As required.

PROJECT: Upgrade electrical and mechanical systems in operations building. (Current Mission)

REQUIREMENT: Adequate utility systems serving an electronic security operations facility. High grade electrical power and reliable environmental control systems are needed to meet the requirements of the advanced electronic and computer hardware in the building.

CURRENT SITUATION: The commercial power grid serving the site has numerous industrial users. The heavy demand causes power fluctuations that are potentially damaging to sensitive electronic components. The result has been higher maintenance costs and increased mission equipment downtime. Newer equipment is even more sensitive than that which is currently in place leading to more serious problems in the future. The condition is even more critical outside the CONUS where local commercial power fails to meet even US parameters. The existing heating and air conditioning system has not kept pace with mission changes over the years. Air distribution patterns, equipment capacity, and most importantly the control systems are inadequate for the equipment loads that must be supported. Lastly, the antiquated systems are costly to operate because of their age and lack of modern energy conservation features.

IMPACT IF NOT PROVIDED: Without the upgrade, critical electronic security

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION MARIENFELDE COMMUNICATIONS STATION WEST BERLIN, GERMANY		
4. PROJECT TITLE UPGRADE OPERATIONS FACILITY		5. PROJECT NUMBER PENL903160

equipment will incur longer periods of unscheduled downtime thereby depriving senior decision-makers of sensitive information vital to the nation's security.

ADDITIONAL: This project is not NATO eligible. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facilities Planning and Design."

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION MARIENFELDE COMMUNICATIONS STATION WEST BERLIN, GERMANY		
4. PROJECT TITLE UPGRADE OPERATIONS FACILITY		5. PROJECT NUMBER PENL903160

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 JUL 10
(b) Percent Complete as of Jan 90	100%
(c) Date 35% Designed	89 APR 15
(d) Date Design Complete	89 OCT 30
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	95
(b) All Other Design Costs	15
(c) Total	110
(d) Contract	
(e) In-house	110
(4) Construction Start	91 MAR

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION THULE AIR BASE, GREENLAND	4. COMMAND AIR FORCE SPACE COMMAND	5. AREA CONST COST INDEX 2.52

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 89	31	130	2							163
b. End FY 1995	29	131	2							162

7. INVENTORY DATA ($000)

a. Total Acreage: (170,000)	
b. Inventory Total As Of: (30 SEP 89)	377,660
c. Authorization Not Yet In Inventory:	21,161
d. Authorization Requested In This Program:	6,300
e. Authorization Included In Following Program: (FY 92)	7,100
f. Planned In Next Three Program Years:	31,500
g. Remaining Deficiency:	0
h. Grand Total:	443,721

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
111-111	UPGRADE AIRFIELD PAVEMENTS, PHASE I	31,000 SY	6,300	DEC 88	NOV 90
		TOTAL:	6,300		

9a. Future Projects: Included in the Following Program (FY 92)

111-111	UPGRADE AIRFIELD PAVEMENTS PHASE II	181,500 SY	7,100
		TOTAL:	7,100

9b. Future Projects: Typical Planned Next Three Years:

111-111	REPAIR RUNWAY	147,800 SY	5,600
111-111	REPAIR RUNWAY	87,360 SY	5,300
811-145	POWER PLANT	KW	20,600

10. Mission or Major Functions: Base supports a missile early warning squadron and a satellite control group.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION THULE AIR BASE, GREENLAND	4. PROJECT TITLE UPGRADE AIRFIELD PAVEMENTS, PHASE I

5. PROGRAM ELEMENT 1.24.96	6. CATEGORY CODE 111-111	7. PROJECT NUMBER WWCX912001	8. PROJECT COST($000) 6,300

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
UPGRADE AIRFIELD PAVEMENTS, PHASE I	SY	31,000	91	2,821
SUPPORTING FACILITIES				2,810
SITE IMPROVEMENTS	LS			(2,810)
SUBTOTAL				5,631
CONTINGENCY (5%)				282
TOTAL CONTRACT COST				5,913
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				384
TOTAL REQUEST				6,297
TOTAL REQUEST (ROUNDED)				6,300

10. Description of Proposed Construction: All materials for complete renovation of runway, taxiways and parking aprons. Includes repair to damaged subgrade, correction of drainage deficiencies, base course, paving and other necessary support.

11. REQUIREMENT: As required.

PROJECT: Upgrade airfield pavements, Phase I. (Current Mission)

REQUIREMENT: A serviceable runway to launch and recover aircraft supporting AFSPACECOM missile warning/satellite tracking and control missions, and contingency operations. The airfield is the main supply line for all items arriving at Thule Air Base and is the only means of supply or transportation for 10 months of the year. There are no means of overland supply/transportation. The seaport is useable (ice-free) for roughly 40 days per year. A serviceable airfield is crucial to survival at Thule Air Base.

CURRENT SITUATION: The existing airfield was constructed in 1951 and received only one partial overlay in 1974. The runway surface is severely cracked and requires new pavement. Localized settlements of one to two feet have occurred on the runway and shoulders and major settlements have occurred on the taxiways. Extremely cold (-50F) temperatures at Thule Air Base are a major contributor to severe surface cracking of asphalt pavement. Ponding water adjacent to the runway and softening of upper layers of the permafrost during the summer contribute to the major settlement problems. Ponding water forming underground seeps beneath the runway causing complete subgrade failure. One end of the runway has settled significantly and no longer meets vertical grade requirements for runway operations. The pavement has deteriorated to the point that loose pieces of pavement could cause foreign object damage to aircraft. This is

DD FORM 1391, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION THULE AIR BASE, GREENLAND		
4. PROJECT TITLE UPGRADE AIRFIELD PAVEMENTS, PHASE I		5. PROJECT NUMBER WWCX912001

phase one of a three phase program.
IMPACT IF NOT PROVIDED: Subsurface streams beneath the runway could cause complete failure resulting in runway closure. This would leave Thule Air Base completely stranded until emergency repairs are completed. Loose pieces of asphalt from the severely deteriorated pavement could result in foreign object damage to aircraft engines.
ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190. "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION THULE AIR BASE, GREENLAND		
4. PROJECT TITLE UPGRADE AIRFIELD PAVEMENTS, PHASE I		5. PROJECT NUMBER WWCX912001

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 DEC 21
(b) Percent Complete as of Jan 90	35%
(c) Date 35% Designed	89 SEP 15
(d) Date Design Complete	90 NOV 15
(2) Basis:	
(a) Standard or Definitive Design -	
(b) Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	750
(b) All Other Design Costs	66
(c) Total	816
(d) Contract	700
(e) In-house	116
(4) Construction Start	91 JAN

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE

3. INSTALLATION AND LOCATION LA MESA AIR BASE, HONDURAS	4. COMMAND TACTICAL AIR COMMAND	5. AREA CONST COST INDEX 0.00

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 89		1	1							2
b. End FY 1954		1	1							2

7. INVENTORY DATA ($000)

a. Total Acreage: (0)	
b. Inventory Total As Of: (30 SEP 89)	0
c. Authorization Not Yet In Inventory:	0
d. Authorization Requested In This Program:	12,600
e. Authorization Included In Following Program: (FY 92)	0
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	0
h. Grand Total:	12,600

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
111-111	AIRFIELD IMPROVEMENTS	LS	12,600	FEB 89	MAY 90
		TOTAL:	12,600		

9a. Future Projects: Included in the Following Program (FY 92) NONE

9b. Future Projects: Typical Planned Next Three Years:

10. Mission or Major Functions: Various rear area staging and forward deployment facilities to support US Southern Command exercise and contingency planning. Runway is certified for C-130 aircraft only.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION LA MESA AIR BASE, HONDURAS	4. PROJECT TITLE AIRFIELD IMPROVEMENTS

5. PROGRAM ELEMENT 2.11.15	6. CATEGORY CODE 111-111	7. PROJECT NUMBER HOND911050	8. PROJECT COST($000) 12,600

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
AIRFIELD IMPROVEMENTS	LS			9,773
APRON	LS			(6,546)
TAXIWAY	LS			(127)
JET FUEL STORAGE	BL	20,000	155	(3,100)
SUPPORTING FACILITIES				1,550
UTILITIES	LS			(535)
PAVEMENTS	LS			(520)
SITE IMPROVEMENTS	LS			(495)
SUBTOTAL				11,323
CONTINGENCY (5%)				566
TOTAL CONTRACT COST				11,889
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				773
TOTAL REQUEST				12,662
TOTAL REQUEST (ROUNDED)				12,600

10. Description of Proposed Construction: Concrete apron with asphalt access taxiway, fuel storage and handling, airfield and security lighting, fencing and other necessary support.

11. REQUIREMENT: As required.

PROJECT: Construct airfield improvements. (New Mission)

REQUIREMENT: Adequate bare base facilities to sustain US Southern Command forces employed in Central America. Pavements and facilites are used to airlift personnel throughout Central America in support of contingency and exercise plans. No alternate airfield is available to fulfill this requirement.

CURRENT SITUATION: Existing ramp space is insufficient to support US Southern Command exercise and contingency plans. Refueling operations for large military aircraft are severely restricted by lack of fuel storage and transfer capacity. Existing fueling assets are inadequate.

IMPACT IF NOT PROVIDED: Required airfield support for exercise and contingency operations will not be available. The United States will not be unable to sustain military operations in defense of Central America during wartime or contingency operations.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION LA MESA AIR BASE, HONDURAS		
4. PROJECT TITLE AIRFIELD IMPROVEMENTS		5. PROJECT NUMBER HOND911050

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 FEB 01
(b) Percent Complete as of Jan 90	60%
(c) Date 35% Designed	89 JUL 01
(d) Date Design Complete	90 MAY 01
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	804
(b) All Other Design Costs	
(c) Total	804
(d) Contract	804
(e) In-house	
(4) Construction Start	91 JAN

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION PALMEROLA (SOTO CANO) AIR BASE, HONDURAS	4. COMMAND TACTICAL AIR COMMAND	5. AREA CONST COST INDEX 1.08

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 89	2									2
b. End FY 1995	2									2

7. INVENTORY DATA ($000)

a. Total Acreage: (0)	
b. Inventory Total As Of: (30 SEP 89)	0
c. Authorization Not Yet In Inventory:	0
d. Authorization Requested In This Program:	4,600
e. Authorization Included In Following Program: (FY 92)	0
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	0
h. Grand Total:	4,600

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
113-321	C-130 AIRCRAFT APRON	66,500 SY	4,600	FEB 89	MAY 90
		TOTAL:	4,600		

9a. Future Projects: Included in the Following Program (FY 92) NONE

9b. Future Projects: Typical Planned Next Three Years:

10. Mission or Major Functions: Various rear area staging and forward deployment facilities to support US Southern Command exercise and contingency planning.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION PALMEROLA (SOTA CANO) AIR BASE, HONDURAS	4. PROJECT TITLE C-130 AIRCRAFT APRON

5. PROGRAM ELEMENT 2.11.15	6. CATEGORY CODE 113-321	7. PROJECT NUMBER HOND913081	8. PROJECT COST($000) 4,600

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
C-130 AIRCRAFT APRON	SY	66,500	55	3,658
SUPPORTING FACILITIES				470
PAVEMENTS	LS			(285)
SITE IMPROVEMENTS	LS			(185)
SUBTOTAL				4,128
CONTINGENCY (5%)				206
TOTAL CONTRACT COST				4,334
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				282
TOTAL REQUEST				4,616
TOTAL REQUEST (ROUNDED)				4,600

10. Description of Proposed Construction: Construct concrete apron with asphalt access taxiways. Includes shoulders, tie downs, demolition and other necessary support.

11. REQUIREMENT: As required.

PROJECT: Construct a C-130 apron. (New Mission)

REQUIREMENT: Adequate airfield facilities to deploy and sustain US Southern Command forces during exercise and contingency operations.

CURRENT SITUATION: During heavy rains, the existing cement-stabilized apron becomes unserviceable. Airlift flow for exercise and contingency operations is significantly delayed or impossible. In dry seasons prevailing winds blow considerable FOD and loose dirt from this apron onto aircraft parked on adjacent concrete ramps. The deteriorated condition of the existing cement-stabilized apron prevents its use as a subbase for new construction. There are no alternate locations which can satisfy the aircraft parking requirements.

IMPACT IF NOT PROVIDED: US Southern Command will be unable to quickly deploy troops and assets in support of regional contingency operations. Force sustainability will be seriously jeopardized.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION PALMEROLA (SOTO CANO) AIR BASE, HONDURAS		
4. PROJECT TITLE C-130 AIRCRAFT APRON		5. PROJECT NUMBER HOND913081

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 FEB 01
(b) Percent Complete as of Jan 90	60%
(c) Date 35% Designed	89 JUN 01
(d) Date Design Complete	90 MAY 01
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	228
(b) All Other Design Costs	
(c) Total	228
(d) Contract	228
(e) In-house	
(4) Construction Start	91 MAR

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION GHEDI AIR FIELD, ITALY	4. COMMAND UNITED STATES AIR FORCES IN EUROPE	5. AREA CONST COST INDEX 1.21

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 89	8	119								127
b. End FY 1995	8	119								127

7. INVENTORY DATA ($000)

a. Total Acreage: (1)	
b. Inventory Total As Of: (30 SEP 89)	563
c. Authorization Not Yet In Inventory:	0
d. Authorization Requested In This Program:	550
e. Authorization Included In Following Program: (FY 92)	0
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	0
h. Grand Total:	1,113

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
420-000	ALTER MUNITIONS STORAGE FACILITY	LS	550	JUL 88	JUN 89
		TOTAL:	550		

9a. Future Projects: Included in the Following Program (FY 92) NONE

9b. Future Projects: Typical Planned Next Three Years:

10. Mission or Major Functions: USAF operated and maintained NATO munitions site. USAFE Munitions Squadron and AFCC Communications Detachment provides maintenance, logistical, administrative and communications support.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2 DATE
3. INSTALLATION AND LOCATION RIMINI AIR FIELD, ITALY	4. COMMAND UNITED STATES AIR FORCES IN EUROPE	5. AREA CONST COST INDEX 1.21

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 89	8	104							3	115
b. End FY 1995	8	104							3	115

7. INVENTORY DATA ($000)

a. Total Acreage: (1)	
b. Inventory Total As Of: (30 SEP 89)	751
c. Authorization Not Yet In Inventory:	0
d. Authorization Requested In This Program:	510
e. Authorization Included In Following Program: (FY 92)	0
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	0
h. Grand Total:	1,261

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
420-000	ALTER MUNITIONS STORAGE FACILITY	LS	510	JUL 88	JUN 89
		TOTAL:	510		

9a. Future Projects: Included in the Following Program (FY 92) NONE

9b. Future Projects: Typical Planned Next Three Years:

10. Mission or Major Functions: USAF operated and maintained NATO munitions site. USAFE Munitions Squadron and AFCC Communications Detachment provides maintenance, logistical, administrative and communications support.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION SAN VITO AIR STATION, ITALY	4. COMMAND UNITED STATES AIR FORCES IN EUROPE	5. AREA CONST COST INDEX 1.21

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 89	71	1344	62				9	145	50	1,681
b. End FY 1995	73	1350	62				9	145	50	1,689

7. INVENTORY DATA ($000)

a. Total Acreage: (367)	
b. Inventory Total As Of: (30 SEP 89)	47,979
c. Authorization Not Yet In Inventory:	490
d. Authorization Requested In This Program:	2,750
e. Authorization Included In Following Program: (FY 92)	360
f. Planned In Next Three Program Years:	9,450
g. Remaining Deficiency:	0
h. Grand Total:	61,029

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
721-312	ALTER DORMITORY	160 PN	2,750	MAR 89	MAR 90
		TOTAL:	2,750		

9a. Future Projects: Included in the Following Program (FY 92)

141-456	RETROFIT OPERATIONS FACILITY	LS	360
		TOTAL:	360

9b. Future Projects: Typical Planned Next Three Years:

219-944	BASE ENGINEER COMPLEX	20,000 SF	3,500
610-000	COMBAT READINESS CENTER	18,000 SF	3,400
721-312	ADD TO AND ALTER DORMITORY	160 PN	2,550

10. Mission or Major Functions: This base is a major communications site. The base hosts an Electronic Security Group which provides management, command, control and direction for Electronic Security Command assigned units.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION SAN VITO AIR STATION, ITALY	4. PROJECT TITLE ALTER DORMITORY

5. PROGRAM ELEMENT 2.75.96	6. CATEGORY CODE 721-312	7. PROJECT NUMBER UUUY899001	8. PROJECT COST($000) 2,750

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ALTER DORMITORY (160 PN)	SF	27,800	75	2,085
SUPPORTING FACILITIES				255
UTILITIES	LS			(105)
SITE IMPROVEMENTS	LS			(130)
COMMUNICATIONS	LS			(20)
SUBTOTAL				2,340
CONTINGENCY (10%)				234
TOTAL CONTRACT COST				2,574
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				167
TOTAL REQUEST				2,741
TOTAL REQUEST (ROUNDED)				2,750

10. Description of Proposed Construction: All structural, mechanical, and electrical required to convert to room-bath-room configuration with exterior entrances. Upgrading the lounge, centralized storage, laundry and support space, fire protection and all other necessary support. Air Conditioning: 75 Tons. Grade Mix: 160 E1-E4.

11. REQUIREMENT: 888 PN ADEQUATE: 276 PN SUBSTANDARD: 384 PN

PROJECT: Alter a dormitory. (Current Mission)

REQUIREMENT: A major Air Force objective is to provide unaccompanied enlisted people with housing that is conducive to proper rest, relaxation and personal well being. Properly designed and furnished quarters providing some degree of individual privacy are essential to the successful accomplishment of the increasingly complicated and important jobs these people must perform. The lack of such quarters is a known irritant.

CURRENT SITUATION: The facilities to be upgraded were constructed in 1961. They have central latrines, inadequate control of heating and air conditioning, insufficient noise attenuation and lack the necessary amenities to adequately house enlisted personnel. Local rentals and utilities are so expensive enlisted people are placed under a severe financial hardship when living off-base.

IMPACT IF NOT PROVIDED: Substandard living conditions will persist, impacting morale, productivity, and career retention.

ADDITIONAL: This project is not eligible for NATO funding. This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION

SAN VITO AIR STATION, ITALY

4. PROJECT TITLE ALTER DORMITORY	5. PROJECT NUMBER UUUY899001

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 MAR 15
(b) Percent Complete as of Jan 90	75%
(c) Date 35% Designed	89 JUL 15
(d) Date Design Complete	90 MAR 15
(2) Basis:	
(a) Standard or Definitive Design -	YES
(b) Where Design Was Most Recently Used -	SAN VITO
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	201
(b) All Other Design Costs	67
(c) Total	268
(d) Contract	201
(e) In-house	67
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION KADENA AIR BASE, JAPAN	4. COMMAND PACIFIC AIR FORCES	5. AREA CONST COST INDEX 1.99

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 89	807	7790	499		158		164	827	956	12,201
b. End FY 1995	758	7546	543		158		164	827	955	11,951

7. INVENTORY DATA ($000)

a. Total Acreage: (14,743)	
b. Inventory Total As Of: (30 SEP 89)	256,891
c. Authorization Not Yet In Inventory:	31,065
d. Authorization Requested In This Program:	3,720
e. Authorization Included In Following Program: (FY 92)	0
f. Planned In Next Three Program Years:	45,593
g. Remaining Deficiency:	0
h. Grand Total:	337,269

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
149-962	CONTROL TOWER CAB	1 EA	770	JAN 89	JAN 90
880-000	FIRE PROTECTION, KC-135 MAINTENANCE FACILITIES	LS	2,950	MAY 88	FEB 90
		TOTAL:	3,720		

9a. Future Projects: Included in the Following Program (FY 92) NONE

9b. Future Projects: Typical Planned Next Three Years:

141-456	OPERATIONS FACILITY TECNICAL MODERNIZATION	LS	650
212-213	MISSILE MAINTENANCE SHOP	9,425 SF	2,493
411-135	JET FUEL STORAGE	100,000 BL	3,750
411-135	JET FUEL STORAGE - PHASE V	200,000 BL	5,500
422-264	STORAGE IGLOO	15 EA	3,600

10. Mission or Major Functions: An Air Division Headquarters. Tactical fighter wing with three F-15 squadrons ; an aerospace rescue and recovery squadron with HH-3 aircraft; a military airlift detachment with C12F aircraft; a strategic reconnaissance wing with KC-135 aircraft; an electronic security group; and rotational E-3 aircraft; a special operations squadron with HC-130 aircraft and host to several navy units.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION KADENA AIR BASE, JAPAN	4. PROJECT TITLE FIRE PROTECTION, KC-135 MAINTENANCE FACILITIES	

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
2.75.96	880-000	LXEZ894038	2,950

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
FIRE PROTECTION, KC-135 MAINTENANCE FACILITIES	LS			2,045
SUPPORTING FACILITIES				475
UTILITIES	LS			(475)
SUBTOTAL				2,520
CONTINGENCY (10%)				252
TOTAL CONTRACT COST				2,772
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				180
TOTAL REQUEST				2,952
TOTAL REQUEST (ROUNDED)				2,950

10. Description of Proposed Construction: Install automatic fire detection/alarm system, automatic closed-head sprinkler and foam systems, transmitter system, and all necessary support.

11. REQUIREMENT: As required.

PROJECT: Install fire protection/detection systems for KC-135 aircraft maintenance buildings. (Current Mission)

REQUIREMENT: Automatic fire detection and suppression systems to protect critical base facilities containing high-value assets from fire. Fire protection systems are required to minimize the hazard to life and property by rapidly detecting, warning and extinguishing a fire before injury or extensive damage occur.

CURRENT SITUATION: The maintenance hangars for KC-135 and AWACS aircraft do not have adequate fire protection systems. These facilities lack the necessary fire detection, alarm and suppression systems to prevent extensive damage to facilities and contents valued at over $100 million. Fire in any of these facilties would jeopardize the lives of personnel assigned and reduce essential mission support.

IMPACT IF NOT PROVIDED: The potential loss of personnel, aircraft, and other valuable resources will continue to be at risk.

ADDITIONAL: This project is not eligible for JFIP funding. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

DD FORM 1391, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION

KADENA AIR BASE, JAPAN

4. PROJECT TITLE FIRE PROTECTION, KC-135 MAINTENANCE FACILITIES	5. PROJECT NUMBER LXEZ894038

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 MAY 13
(b) Percent Complete as of Jan 90	60%
(c) Date 35% Designed	88 SEP 12
(d) Date Design Complete	90 FEB 15
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	69
(b) All Other Design Costs	67
(c) Total	136
(d) Contract	101
(e) In-house	35
(4) Construction Start	91 MAR

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION KUNSAN AIR BASE, KOREA	4. COMMAND PACIFIC AIR FORCES	5. AREA CONST COST INDEX 1.07

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 89	238	2732	16							2,986
b. End FY 1995	238	2674	18							2,930

7. INVENTORY DATA ($000)

a. Total Acreage: (2,939)	
b. Inventory Total As Of: (30 SEP 89)	159,449
c. Authorization Not Yet In Inventory:	56,940
d. Authorization Requested In This Program:	20,300
e. Authorization Included In Following Program: (FY 92)	13,650
f. Planned In Next Three Program Years:	33,020
g. Remaining Deficiency:	0
h. Grand Total:	283,359

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
141-753	SQUADRON OPERATIONS FACILITY	19,100 SF	6,000	MAY 87	DEC 90
211-179	AIRCRAFT FUEL SYSTEMS REPAIR DOCK	15,500 SF	3,300	FEB 88	NOV 89
740-674	ADD TO AND ALTER PHYSICAL FITNESS COMPLEX	36,200 SF	5,300	AUG 89	JUN 90
812-225	UPGRADE ELECTRICAL DISTRIBUTION SYSTEM, PHASE III	LS	5,700	APR 86	DEC 88
		TOTAL:	20,300		

9a. Future Projects: Included in the Following Program (FY 92)

141-182	ALTER HARDENED AIRCRAFT SHELTERS	11 EA	5,200
141-753	SQUADRON OPERATIONS FACILITY	18,200 SF	6,500
432-283	COLD STORAGE FACILITY	12,000 SF	1,950
		TOTAL:	13,650

9b. Future Projects: Typical Planned Next Three Years:

130-835	SECURITY POLICE OPERATIONS FACILITY	22,000 SF	3,650
140-000	PASSIVE DEFENSE OPERATIONS/ STORAGE FACILITY	15,000 SF	1,500
141-182	REPAIR HARDENED AIRCRAFT SHELTER	17 EA	980
214-000	WAR READINESS MATERIEL VEHICLE STORAGE FACILITY	LS	840
214-467	REFUELING VEHICLE MAINTENANCE FACILITY	2,700 SF	810

10. Mission or Major Functions: A tactical fighter wing with two F-16 squadrons.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE

3. INSTALLATION AND LOCATION KUNSAN AIR BASE, KOREA	4. COMMAND PACIFIC AIR FORCES	5. AREA CONST COST INDEX 1.07

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of										
b. End FY 19										

7. INVENTORY DATA ($000)

a. Total Acreage:
b. Inventory Total As Of:
c. Authorization Not Yet In Inventory:
d. Authorization Requested In This Program:
e. Authorization Included In Following Program:
f. Planned In Next Three Program Years:
g. Remaining Deficiency:
h. Grand Total:

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION KUNSAN AIR BASE, KOREA	4. PROJECT TITLE SQUADRON OPERATIONS FACILITY

5. PROGRAM ELEMENT 2.75.96	6. CATEGORY CODE 141-753	7. PROJECT NUMBER MLWR897736	8. PROJECT COST($000) 6,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
SQUADRON OPERATIONS FACILITY	SF	19,100	110	2,101
SUPPORTING FACILITIES				3,275
UTILITIES	LS			(150)
PAVEMENTS	SY	2,800	21	(60)
SPECIAL FOUNDATIONS	LS			(295)
SITE IMPROVEMENTS	LS			(130)
EMERGENCY POWER	LS			(250)
SEMIHARDENING & CHEM-BIO PROTECTION	SF	19,100	125	(2,390)
SUBTOTAL				5,376
CONTINGENCY (5%)				269
TOTAL CONTRACT COST				5,645
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				367
TOTAL REQUEST				6,012
TOTAL REQUEST (ROUNDED)				6,000

10. Description of Proposed Construction: Reinforced concrete foundation, floor slab, masonry walls and roof system. Semihardened briefing rooms, flight planning and life support area. Includes emergency power and other necessary support. Air Conditioning: 60 Tons.

11. REQUIREMENT: 36,400 SF ADEQUATE: 0 SUBSTANDARD: 19,400 SF

PROJECT: Construct a semihardened squadron operations facility. (New Mission)

REQUIREMENT: An adequate, survivable facility in which to plan, brief, and critique combat crews and to direct flight operations. Space is required to program and conduct mission briefings and other related command activities. Space is also required for storing and issuing flying clothing and equipment. The briefing rooms, flight planning/operations and life support areas require semihardening to provide minimum protection to operate in wartime.

CURRENT SITUATION: The squadron operations facilities are unprotected and located in highly targeted fighter aircraft operations areas. These facilities, built in the 1960's, lack hardening and are vulnerable to damage or destruction from enemy attack. The existing facility is within the quantity-distance criteria, adjacent to the fighter quickturn area.

IMPACT IF NOT PROVIDED: Survival of air crew personnel and equipment, and the continuation of critical operational function, will continue to be adversely impacted.

ADDITIONAL: This project is not eligible for Korean CDIP funding. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

DD FORM 1391, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION KUNSAN AIR BASE, KOREA		
4. PROJECT TITLE SQUADRON OPERATIONS FACILITY		5. PROJECT NUMBER MLWR897736

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	87 MAY 20
(b) Percent Complete as of Jan 90	70%
(c) Date 35% Designed	87 NOV 16
(d) Date Design Complete	90 DEC 31
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	250
(b) All Other Design Costs	100
(c) Total	350
(d) Contract	250
(e) In-house	100
(4) Construction Start	91 APR

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION KUNSAN AIR BASE, KOREA	4. PROJECT TITLE AIRCRAFT FUEL SYSTEMS REPAIR DOCK

5. PROGRAM ELEMENT 2.75.96	6. CATEGORY CODE 211-179	7. PROJECT NUMBER MLWR903001	8. PROJECT COST($000) 3,300

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
AIRCRAFT FUEL SYSTEMS REPAIR DOCK	SF	15,500	140	2,170
SUPPORTING FACILITIES				770
FIRE PROTECTION SYSTEM	LS			(185)
UTILITIES	LS			(315)
PAVEMENTS	LS			(40)
SITE IMPROVEMENTS	LS			(75)
SPECIAL FOUNDATIONS	LS			(155)
SUBTOTAL				2,940
CONTINGENCY (5%)				147
TOTAL CONTRACT COST				3,087
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				201
TOTAL REQUEST				3,288
TOTAL REQUEST (ROUNDED)				3,300

10. Description of Proposed Construction: Concrete foundation and floor slab, masonry wall, and roof system. Includes shop area, fuel bladder maintenance area, tools storage room and other necessary support. Air Conditioning: 15 Tons.

11. REQUIREMENT: 15,500 SF ADEQUATE: 0 SUBSTANDARD: 9,010 SF

PROJECT: Construct an aircraft fuel systems repair dock. (Current Mission)

REQUIREMENT: A two-bay aircraft fuel system repair facility to provide all weather maintenance capability for fuel systems and fuel systems components of F-16 aircraft.

CURRENT SITUATION: The existing one-bay aircraft fuel systems repair shop is a temporary, substandard pre-engineered metal building originally built as a pull-through hangar. During the winter, the heating system cannot maintain the minimum temperature to perform sealant work. Aircraft downtime is an increasingly critical problem. As many as thirteen aircraft have been backlogged for fuel system repairs at one time. These delays are directly attributed to the insufficient repair bays and the inadequate environmental control system. There is inadequate drainage and no wash drain in case of fuel spills, no fire suppression system or heat sensing detectors, and no explosive vapor detection system to automatically open the hangar door when fuel fumes exceed the maximum 20 percent level. There is no hoist to facilitate wing removal and replacement necessary to repair wing fuel cells. The existing facility will fill the shortfall of general aircraft maintenance docks.

IMPACT IF NOT PROVIDED: Support of F-16 mission will continue to be seriously curtailed and maintenance personnel will continue to work under an extremely hazardous environment with potential for serious accidents.

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION KUNSAN AIR BASE, KOREA		
4. PROJECT TITLE AIRCRAFT FUEL SYSTEMS REPAIR DOCK		5. PROJECT NUMBER MLWR903001

ADDITIONAL: This project is not eligible for Korean CDIP funding. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION KUNSAN AIR BASE, KOREA		
4. PROJECT TITLE AIRCRAFT FUEL SYSTEMS REPAIR DOCK		5. PROJECT NUMBER MLWR903001

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 FEB 15
(b) Percent Complete as of Jan 90	100%
(c) Date 35% Designed	88 SEP 10
(d) Date Design Complete	89 NOV 31
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	113
(b) All Other Design Costs	97
(c) Total	210
(d) Contract	140
(e) In-house	70
(4) Construction Start	91 FEB

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION KUNSAN AIR BASE, KOREA	4. PROJECT TITLE ADD TO AND ALTER PHYSICAL FITNESS COMPLEX

5. PROGRAM ELEMENT 2.75.96	6. CATEGORY CODE 740-674	7. PROJECT NUMBER MLWR903011	8. PROJECT COST($000) 5,300

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ADD TO AND ALTER PHYSICAL FITNESS COMPLEX	SF	36,200		3,853
GYMNASIUM/BATHOUSE ADDITION	SF	18,500	125	(2,313)
ALTER GYM/SWIMMING POOL	SF	17,700	87	(1,540)
SUPPORTING FACILITIES				695
UTILITIES	LS			(115)
SITE IMPROVEMENTS/PAVEMENTS	LS			(150)
COMMUNICATIONS SUPPORT	LS			(20)
SPECIAL FOUNDATIONS	LF	7,000	44	(310)
DEMOLITION	LS			(100)
SUBTOTAL				4,548
CONTINGENCY (10%)				455
TOTAL CONTRACT COST				5,003
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				325
TOTAL REQUEST				5,328
TOTAL REQUEST (ROUNDED)				5,300

10. Description of Proposed Construction: Concrete foundation and floor slab, masonry walls, roof system, fire protection, utilities and necessary support. Area includes basketball court, equipment issue room, locker rooms, showers, swimmers' bathhouse, offices, storage, sauna bath, laundry room and support space. Includes all work required to alter/rearrange interior of existing gym and to convert existing outdoor pool to indoor. Air Conditioning: 5 Tons.

11. REQUIREMENT: As required.

PROJECT: Construct addition and alter physical fitness complex. (Current Mission)

REQUIREMENT: An improved physical fitness complex is needed to alleviate the overcrowded conditions in the existing gymnasium and provide a year round physical fitness facility to maintain/improve the health and well being of assigned personnel.

CURRENT SITUATION: Existing facilities are too small to conduct adequate athletic and physical fitness programs. Many patrons are turned away and athletic programs must be curtailed. Despite the use of waiting lists and optimum scheduling, personnel are forced to wait in line to use courts, showers, and swimming pool. This facility is an integral part of the social and physical activities at this remote location.

IMPACT IF NOT PROVIDED: The athletic and physical fitness programs will continue to be restricted due to lack of adequate facilities. Limited availability of off-duty recreational facilities adversely affects the morale of assigned personnel.

ADDITIONAL: Alteration includes: Erecting of steel frame on the existing footings, masonry walls, roof system, utilities and necessary support to convert existing outdoor swimming pool to indoor. All electrical,

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION KUNSAN AIR BASE, KOREA		
4. PROJECT TITLE ADD TO AND ALTER PHYSICAL FITNESS COMPLEX		5. PROJECT NUMBER MLWR903011

mechanical and structural work necessary to alter present gym area to provide a weight room, nautilus, class rooms, indoor running track and storage.

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION KUNSAN AIR BASE, KOREA		
4. PROJECT TITLE ADD TO AND ALTER PHYSICAL FITNESS COMPLEX		5. PROJECT NUMBER MLWR903011

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 AUG 15
(b) Percent Complete as of Jan 90	35%
(c) Date 35% Designed	89 DEC 20
(d) Date Design Complete	90 JUN 15
(2) Basis:	
(a) Standard or Definitive Design -	YES
(b) Where Design Was Most Recently Used -	SHEMYA
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	318
(b) All Other Design Costs	53
(c) Total	371
(d) Contract	318
(e) In-house	53
(4) Construction Start	91 FEB

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION KUNSAN AIR BASE, KOREA	4. PROJECT TITLE UPGRADE ELECTRICAL DISTRIBUTION SYSTEM, PHASE III

5. PROGRAM ELEMENT 2.75.96	6. CATEGORY CODE 812-225	7. PROJECT NUMBER MLWR887728	8. PROJECT COST($000) 5,700

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
UPGRADE ELECTRICAL DISTRIBUTION SYSTEM, PHASE III	LS			2,480
SUPPORTING FACILITIES				2,410
UTILITIES	LS			(1,600)
UPGRADE STREET LIGHTING SYSTEM	LS			(810)
SUBTOTAL				4,890
CONTINGENCY (10%)				489
TOTAL CONTRACT COST				5,379
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				350
TOTAL REQUEST				5,729
TOTAL REQUEST (ROUNDED)				5,700

10. Description of Proposed Construction: Replace overhead primary and secondary lines with higher capacity underground lines. Upgrade services to buildings. Includes transformers, switches, metering unit, upgrade of the street lighting system and all necessary support.

11. REQUIREMENT: As required.

PROJECT: Upgrade electrical distribution system. (Current Mission)

REQUIREMENT: A reliable, survivable and expandable electrical distribution system. A higher voltage distribution system is required to meet increased power demands. The system must meet base power requirements and be reliable. Street lights are required to provide safety for both pedestrian and vehicular traffic. This is the final phase of a three-phase program to upgrade the electrical distribution system.

CURRENT SITUATION: The overhead electrical distribution system is Korean War vintage and badly deteriorated. The present system consists of overhead and underground distribution lines which do not have the capacity to support new facilities. Portions of the base overhead primary distribution system are not rated for the higher voltage now used.

IMPACT IF NOT PROVIDED: As the demand for electrical energy increases, the capacity of the transmission lines will be further exceeded. This will increase the frequency of load shedding and brownouts while also increasing the potential for system damage. A substantial amount of electrical energy will continue to be lost due to undersized transmission lines. If this project is not provided, mission effectiveness will be adversely impacted.

ADDITIONAL: This project is not eligible for Korean CDIP funding. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION KUNSAN AIR BASE, KOREA		
4. PROJECT TITLE UPGRADE ELECTRICAL DISTRIBUTION SYSTEM, PHASE III		5. PROJECT NUMBER MLWR887728

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	86 APR 22
(b) Percent Complete as of Jan 90	100%
(c) Date 35% Designed	88 JAN 25
(d) Date Design Complete	88 DEC 09
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	174
(b) All Other Design Costs	72
(c) Total	246
(d) Contract	174
(e) In-house	72
(4) Construction Start	91 FEB

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION OSAN AIR BASE, KOREA	4. COMMAND PACIFIC AIR FORCES	5. AREA CONST COST INDEX 1.07

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 89	574	4726	118	847	2459	41	865	2512	75	12,217
b. End FY 1995	568	4875	118	847	2459	41	865	2512	75	12,360

7. INVENTORY DATA ($000)

a. Total Acreage: (8,434)	
b. Inventory Total As Of: (30 SEP 89)	265,313
c. Authorization Not Yet In Inventory:	98,806
d. Authorization Requested In This Program:	15,600
e. Authorization Included In Following Program: (FY 92)	7,890
f. Planned In Next Three Program Years:	68,230
g. Remaining Deficiency:	0
h. Grand Total:	455,839

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
112-211	REPLACE TAXIWAY PAVEMENT, PHASE I	LS	5,500	JAN 89	APR 90
130-142	FIRE STATION	24,500 SF	4,650	DEC 88	APR 90
141-453	BASE OPERATIONS FACILITY	11,000 SF	1,950	JAN 89	APR 90
211-152	SQUADRON OPERATIONS/SENSOR MAINTENANCE FACILITIES	8,000 SF	1,700	MAY 88	AUG 90
218-712	AIRCRAFT SUPPORT EQUIPMENT SHOP/STORAGE FACILITY	10,000 SF	1,800	JUN 88	FEB 90
		TOTAL:	15,600		

9a. Future Projects: Included in the Following Program (FY 92)

214-000	WAR READINESS MATERIEL VEHICLE STORAGE FACILITY	20,000 SF	840
422-271	MUNITIONS LINE DELIVERY FACILITIES	11,945 SF	1,950
721-312	DORMITORIES	182 PN	5,100
		TOTAL:	7,890

9b. Future Projects: Typical Planned Next Three Years:

140-000	PASSIVE DEFENSE OPERATIONS/ STORAGE FACILITY	15,000 SF	1,500
141-182	ALTER AIRCRAFT SHELTERS	9 EA	4,450
141-784	PASSENGER TERMINAL	55,000 SF	6,700
214-425	TRANSPORTATION COMPLEX PH II	LS	8,600
422-265	MUNITIONS PRELOAD EQUIPMENT STORAGE FACILITY	7,500 SF	570

10. Mission or Major Functions: A numbered Air Force Headquarters. A tactical fighter wing with F-16 aircraft; and an aerospace rescue and recovery squadron with CH-3/HH-3 aircraft which converts to MH-60s in FY90.

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION OSAN AIR BASE, KOREA	4. COMMAND PACIFIC AIR FORCES	5. AREA CONST COST INDEX 1.07

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of										
b. End FY 19										

7. INVENTORY DATA ($000)

a. Total Acreage:
b. Inventory Total As Of:
c. Authorization Not Yet In Inventory.
d. Authorization Requested In This Program:
e. Authorization Included In Following Program:
f. Planned In Next Three Program Years:
g. Remaining Deficiency:
h. Grand Total:

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION OSAN AIR BASE, KOREA	4. PROJECT TITLE REPLACE TAXIWAY PAVEMENT, PHASE I

5. PROGRAM ELEMENT 2.75.96	6. CATEGORY CODE 112-211	7. PROJECT NUMBER SMYU903100	8. PROJECT COST($000) 5,500

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
REPLACE TAXIWAY PAVEMENT, PH I	LS			4,336
SUPPORTING FACILITIES				585
SUBDRAINAGE	LS			(100)
COMMUNICATIONS SUPPORT	LS			(50)
REPLACE SHOULDERS	SY	30,000	14	(420)
PAVEMENT MARKINGS	LS			(15)
SUBTOTAL				4,921
CONTINGENCY (5%)				246
TOTAL CONTRACT COST				5,167
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				336
TOTAL REQUEST				5,503
TOTAL REQUEST (ROUNDED)				5,500

10. Description of Proposed Construction: Replace asphaltic pavement with a new concrete pavement system. Replace shoulders, improve drainage system. Includes pavement markings, communication duct system at intersections with access taxiways, and other necessary support.

11. REQUIREMENT: As required.

PROJECT: Replace taxiway pavement, phase I. (Current Mission)

REQUIREMENT: A dependable, low-maintenance taxiway to accommodate taxiing aircraft and serve as an alternate runway. An alternate runway is needed in emergency/contingency situations. Osan Air Base is the major receiving point for all transient aircraft for Korea. All aircraft, mission and transient, must use this parallel taxiway to travel to/from the runway. Shoulders are required to control jet blast erosion, provide taxiway surface drainage, and support flightline vehicles.

CURRENT SITUATION: Large patches on the taxiway overlay are sinking due to deterioration and failure of the base course. These depressions create a rough surface which is unsuitable for fighter aircraft and reduce the possible use of the taxiway as an alternate runway. Surface cracks and depressions in shoulders allow water to infiltrate through to base materials, thus further reducing load bearing capacity of the system. Deteriorating asphalt has become a major source of foreign object damage (FOD) to passing aircraft. This is phase one of a two-phase project to replace the entire parallel taxiway.

IMPACT IF NOT PROVIDED: The surface condition and structural stability of the taxiway will continue to deteriorate. More "stop gap" patching projects and temporary closures will be required. Shoulder deterioration will hinder vehicle traffic flow, accelerate taxiway failure, and increase FOD potential to passing aircraft. Mission capability at Osan Air Base

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION OSAN AIR BASE, KOREA		
4. PROJECT TITLE REPLACE TAXIWAY PAVEMENT, PHASE I		5. PROJECT NUMBER SMYU903100

will be adversely impacted.
ADDITIONAL: This project is not eligible for Korean CDIP funding. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION OSAN AIR BASE, KOREA		
4. PROJECT TITLE REPLACE TAXIWAY PAVEMENT, PHASE I		5. PROJECT NUMBER SMYU903100

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:

(a) Date Design Started	89 JAN 15
(b) Percent Complete as of Jan 90	60%
(c) Date 35% Designed	89 JUL 24
(d) Date Design Complete	90 APR 30

(2) Basis:

(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A

(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	200
(b) All Other Design Costs	214
(c) Total	414
(d) Contract	200
(e) In-house	214

(4) Construction Start 91 APR

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION OSAN AIR BASE, KOREA	4. PROJECT TITLE FIRE STATION

5. PROGRAM ELEMENT 2.75.96	6. CATEGORY CODE 130-142	7. PROJECT NUMBER SMYU913102	8. PROJECT COST($000) 4,650

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
FIRE STATION	SF	24,500	110	2,695
SUPPORTING FACILITIES				1,485
UTILITIES	LS			(180)
SITE IMPROVEMENTS	LS			(180)
PAVEMENTS	SY	20,600	15	(310)
SEMIHARDENING & CHEM-BIO PROTECTION	SF	2,450	220	(540)
COMMUNICATIONS SUPPORT	LS			(45)
SPECIAL FOUNDATION	LS			(110)
EMERGENCY POWER	LS			(120)
SUBTOTAL				4,180
CONTINGENCY (5%)				209
TOTAL CONTRACT COST				4,389
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				285
TOTAL REQUEST				4,674
TOTAL REQUEST (ROUNDED)				4,650

10. Description of Proposed Construction: Reinforced concrete foundation and floor slabs, masonry walls, roof system, fire protection system and emergency power system. Includes sleeping quarters, training rooms, kitchen/dining area, covered vehicle parking, maintenance stalls, semihardened communications center and other necessary support.
Air Conditioning: 25 Tons.

11. REQUIREMENT: 24,500 SF ADEQUATE: 0 SUBSTANDARD: 19,625 SF

PROJECT: Construct a fire station. (Current Mission)

REQUIREMENT: An adequate facility to house fire protection vehicles, equipment and fire fighters.

CURRENT SITUATION: The present facility has deteriorated beyond economical repair. It is limited by structural design and is unsuitable to meet the needs of a modern fire department. Sleeping quarters do not meet Air Force standards and during winter months, personnel space must be used for supply and equipment storage. The existing facility will be disposed of upon completion of this project.

IMPACT IF NOT PROVIDED: Continued forced use of the existing substandard facility will have a detrimental effect on the fire department's ability to maintain personnel and equipment in constant readiness to respond to emergencies.

ADDITIONAL: This project is not eligible for Korean CDIP funding. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION OSAN AIR BASE, KOREA		
4. PROJECT TITLE FIRE STATION		5. PROJECT NUMBER SMYU913102

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 DEC 15
(b) Percent Complete as of Jan 90	60%
(c) Date 35% Designed	89 JUL 28
(d) Date Design Complete	90 APR 30
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	180
(b) All Other Design Costs	100
(c) Total	280
(d) Contract	180
(e) In-house	100
(4) Construction Start	91 APR

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION OSAN AIR BASE, KOREA		4. PROJECT TITLE BASE OPERATIONS FACILITY	
5. PROGRAM ELEMENT 2.75.96	6. CATEGORY CODE 141-453	7. PROJECT NUMBER SMYU913081	8. PROJECT COST($000) 1,950

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
BASE OPERATIONS FACILITY	SF	11,000	90	990
SUPPORTING FACILITIES				775
UTILITIES	LS			(75)
SITE IMPROVEMENTS	LS			(85)
PAVEMENTS	LS			(30)
COMMUNICATIONS SUPPORT	LS			(15)
SPLINTER AND CHEM-BIO PROTECTION	LS			(500)
EMERGENCY POWER	KW	100	650	(65)
FUEL STORAGE TANK	GA	2,000	2	(5)
SUBTOTAL				1,765
CONTINGENCY (5%)				88
TOTAL CONTRACT COST				1,853
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				120
TOTAL REQUEST				1,973
TOTAL REQUEST (ROUNDED)				1,950

10. Description of Proposed Construction: Reinforced concrete foundation and floor slab, masonry walls and roof system. Includes base weather, airlift/air terminal control centers, transient aircrew space, flight planning, dispatch, communications room, pre-wired workstations and other necessary support.

Air Conditioning: 40 Tons.

11. REQUIREMENT: 11,000 SF ADEQUATE: 0 SUBSTANDARD: 5,142 SF

PROJECT: Construct a base operations facility. (Current Mission)

REQUIREMENT: An adequate facility to house the base operations and weather station functions as well as MAC's Airlift Control Center (ACC) and Air Passenger Terminal Control Center functions. These functions need to be collocated for effective interactions and to allow flight crews immediate access to the latest weather forecasts. Control centers must be chemical/biological protected.

CURRENT SITUATION: The existing facility is a Korean War vintage quonset-type structure which has deteriorated beyond economical repair. Also, the space is too small and improperly configured to provide pilot briefings and base operations services. Different functions are combined in the same area, resulting in a high noise level and crowded conditions. Existing floor space and structural configuration limit productivity and effective utilization of work areas. There is no other base facility which could be used or converted to provide an adequate base operations facility. The existing facility will be demolished upon completion of this project.

IMPACT IF NOT PROVIDED: Functional efficiency of base operations will continue to be impaired. The base will be forced to continue to maintain and operate a deteriorated and energy inefficient facility.

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION OSAN AIR BASE, KOREA		
4. PROJECT TITLE BASE OPERATIONS FACILITY		5. PROJECT NUMBER SMYU913081

ADDITIONAL: This project is not eligible for Korean CDIP funding. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION OSAN AIR BASE, KOREA		
4. PROJECT TITLE BASE OPERATIONS FACILITY		5. PROJECT NUMBER SMYU913081

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 JAN 01
(b) Percent Complete as of Jan 90	60%
(c) Date 35% Designed	89 AUG 01
(d) Date Design Complete	90 APR 01
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	65
(b) All Other Design Costs	30
(c) Total	95
(d) Contract	65
(e) In-house	30
(4) Construction Start	91 FEB

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION OSAN AIR BASE, KOREA	4. PROJECT TITLE SQUADRON OPERATIONS/SENSOR MAINTENANCE FACILITIES

5. PROGRAM ELEMENT 2.75.96	6. CATEGORY CODE 211-152	7. PROJECT NUMBER KNMD903029	8. PROJECT COST($000) 1,700

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
SQUADRON OPERATIONS/SENSOR MAINTENANCE FACILITY	SF	8,000		1,020
SENSOR MAINTENANCE SHOP	SF	4,000	105	(420)
SQUADRON OPERATIONS FACILITY	SF	4,000	150	(600)
SUPPORTING FACILITIES				515
UTILITIES	LS			(185)
PAVEMENTS	LS			(165)
SITE IMPROVEMENTS	LS			(165)
SUBTOTAL				1,535
CONTINGENCY (5%)				77
TOTAL CONTRACT COST				1,612
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				105
TOTAL REQUEST				1,717
TOTAL REQUEST (ROUNDED)				1,700

10. Description of Proposed Construction: Concrete foundation and floor slab, masonry walls, roof system and fire protection system. Includes shops, mission brief/debrief room, flight planning/operations, tool and equipment storage and other necessary support. Air Conditioning: 15 Tons.

11. REQUIREMENT: 22,000 SF ADEQUATE: 14,000 SF SUBSTANDARD: 5,433 SF

PROJECT: Construct squadron operations and sensor maintenance facilities. (New Mission)

REQUIREMENT: An adequate sensor maintenance facility near aircraft hangars to provide shop space for sensitive reconnaissance sensors. An adequate squadron operations facility to plan, brief and critique combat crews and to direct flight operations. Space is needed to store and issue flying clothing and equipment.

CURRENT SITUATION: Current facilities are in the way of two new buildings programmed for construction to house the intermediate level maintenance shops and some sensor maintenance but will not be able to accommodate all sensor requirements. There are no other facilities that can be modified to support these functions. There is no facility available to support the added senor maintenance function.

IMPACT IF NOT PROVIDED: The beddown of programmed new mission aircraft cannot be supported. The sensitive sensors will not be properly maintained and the squadron operations function will be displaced as a result of other maintenance facilities.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

DD FORM 1391, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION OSAN AIR BASE, KOREA		
4. PROJECT TITLE SQUADRON OPERATIONS/SENSOR MAINTENANCE FACILITIES		5. PROJECT NUMBER KNMD903029

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 MAY 15
(b) Percent Complete as of Jan 90	35%
(c) Date 35% Designed	88 SEP 12
(d) Date Design Complete	90 AUG 15
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	50
(b) All Other Design Costs	55
(c) Total	105
(d) Contract	70
(e) In-house	35
(4) Construction Start	91 MAR

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION OSAN AIR BASE, KOREA	4. PROJECT TITLE AIRCRAFT SUPPORT EQUIPMENT SHOP/STORAGE FACILITY	

5. PROGRAM ELEMENT 2.75.96	6. CATEGORY CODE 218-712	7. PROJECT NUMBER KNMD903027	8. PROJECT COST($000) 1,800

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
AIRCRAFT SUPPORT EQUIPMENT SHOP/STORAGE FACILITY	SF	10,000	115	1,150
SUPPORTING FACILITIES				470
COMMUNICATIONS SUPPORT	LS			(35)
UTILITIES	LS			(95)
PAVEMENTS	LS			(100)
SITE IMPROVEMENTS	LS			(130)
REVETMENTS	LS			(110)
SUBTOTAL				1,620
CONTINGENCY (5%)				81
TOTAL CONTRACT COST				1,701
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				111
TOTAL REQUEST				1,812
TOTAL REQUEST (ROUNDED)				1,800

10. Description of Proposed Construction: Concrete foundation and floor slab, masonry walls, roof system and fire protection system. Includes maintenance areas, storage areas, tool crib/bench stock area and other necessary support. Air Conditioning: 10 Tons.

11. REQUIREMENT: 31,571 SF ADEQUATE: 21,571 SF SUBSTANDARD: 5,399 SF

PROJECT: Construct aircraft support equipment (ASE) shop and storage facility with paved equipment parking. (New Mission)

REQUIREMENT: An adequate maintenance and storage facility for inspection, maintenance and repair of powered ASE. Additional aircraft drive the relocation and expansion of the existing ASE operations. This facility must support over 300 pieces of powered ASE.

CURRENT SITUATION: Aircraft support equipment maintenance and storage functions are performed in two buildings. The location of these facilities is less than desirable to effectively respond to the needs of aircraft maintenance personnel. The existing ASE maintenance facilities will be converted to support other maintenance requirements.

IMPACT IF NOT PROVIDED: The new mission aircraft will be adversely affected because maintenance crews will not have support equipment readily available on the flightline.

ADDITIONAL: There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION OSAN AIR BASE, KOREA		
4. PROJECT TITLE AIRCRAFT SUPPORT EQUIPMENT SHOP/STORAGE FACILITY		5. PROJECT NUMBER KNMD903027

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 JUN 30
(b) Percent Complete as of Jan 90	60%
(c) Date 35% Designed	88 SEP 12
(d) Date Design Complete	90 FEB 15
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	68
(b) All Other Design Costs	66
(c) Total	134
(d) Contract	100
(e) In-house	34
(4) Construction Start	91 MAR

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION CLARK AIR BASE, REPUBLIC OF THE PHILIPPINES	4. COMMAND PACIFIC AIR FORCES	5. AREA CONST COST INDEX 0.90

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 89	817	6647	268	44	91	12	80	355	45	8,359
b. End FY 1995	851	7469	278	44	91	12	80	355	45	9,225

7. INVENTORY DATA ($000)

a. Total Acreage: (57,405)	
b. Inventory Total As Of: (30 SEP 89)	252,495
c. Authorization Not Yet In Inventory:	129,685
d. Authorization Requested In This Program:	710
e. Authorization Included In Following Program: (FY 92)	1,700
f. Planned In Next Three Program Years:	62,360
g. Remaining Deficiency:	0
h. Grand Total:	446,950

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
149-962	CONTROL TOWER CAB	1 EA	710	JAN 89	JAN 90
		TOTAL:	710		

9a. Future Projects: Included in the Following Program (FY 92)

211-179	SOF ADD TO AND ALTER FUEL SYSTEM MAINTENANCE DOCK	21,800 SF	1,700
		TOTAL:	1,700

9b. Future Projects: Typical Planned Next Three Years:

140-000	AIR BASE OPERABILITY/PASSIVE DEFENSE STORAGE FACILITY	25,900 SF	3,200
141-182	AIRCRAFT REVETMENTS PHASE II	LS	2,500
141-182	AIRCRAFT (HOT PIT) HYDRANT FUELING SYSTEM, PH I	4 EA	4,050
214-425	VEHICLE MAINTENANCE COMPLEX, PHASE I	44,300 SF	4,200
216-642	MUNITIONS OPERATION COMPLEX, PHASE III	5,520 SF	2,000

10. Mission or Major Functions: Tactical fighter wing with C-12F, F-4E, and F4G aircraft; special operations squadrons with MH-53J and MC-130E aircraft; USAF Regional Hospital; a Numbered Air Force Headquarters.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION MAHE AIR STATION, SEYCHELLES	4. COMMAND AIR FORCE SYSTEMS COMMAND	5. AREA CONST COST INDEX 3.00

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 89	2	2								4
b. End FY 1995	2	2								4

7. INVENTORY DATA ($000)

a. Total Acreage: (0)	
b. Inventory Total As Of: (30 SEP 89)	0
c. Authorization Not Yet In Inventory:	0
d. Authorization Requested In This Program:	4,600
e. Authorization Included In Following Program: (FY 92)	0
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	0
h. Grand Total:	4,600

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
312-941	SATELLITE CONTROL FACILITY	4,500 SF	4,600	JAN 89	DEC 90
		TOTAL:	4,600		

9a. Future Projects: Included in the Following Program (FY 92) NONE

9b. Future Projects: Typical Planned Next Three Years:

10. Mission or Major Functions: Air Force Space Command satellite control facility. Provides telemetry, tracking, and command capability for both USAF and NASA space programs.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION INDIAN OCEAN TRACKING STATION MAHE AIR STATION, SEYCHELLES	4. PROJECT TITLE SATELLITE CONTROL FACILITY

5. PROGRAM ELEMENT 3.51.10	6. CATEGORY CODE 312-941	7. PROJECT NUMBER NXTY903601	8. PROJECT COST($000) 4,600

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
SATELLITE CONTROL FACILITY	SF	4,500	780	3,510
SUPPORTING FACILITIES				605
PAVEMENTS	LS			(340)
SITE IMPROVEMENTS	LS			(40)
UTILITIES	LS			(225)
SUBTOTAL				4,115
CONTINGENCY (5%)				206
TOTAL CONTRACT COST				4,321
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				281
TOTAL REQUEST				4,602
TOTAL REQUEST (ROUNDED)				4,600
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(500)

10. Description of Proposed Construction: Reinforced concrete foundation and block walls, roofing system, retaining wall, demolition, extension of all utilities to new site, uninterruptible power supply, fire protection and other necessary support. Air Conditioning: 10 Tons.

11. REQUIREMENT: 4,500 SF ADEQUATE: 0 SUBSTANDARD: 9,600 SF

PROJECT: Construct a satellite control facility for satellite tracking equipment. (New Mission)

REQUIREMENT: An adequate facility to house electronic and support equipment necessary to receive/transmit telemetry, tracking, and commanding data from satellites. The Indian Ocean Station is a Remote Tracking Station and a key location for the Air Force Satellite Control Network. Its geographical location is crucial for monitoring satellites orbiting the eastern hemisphere of the earth. Satellites orbiting this area often cannot be contacted from other sites due to limitations in look-angles. Continuous availability of contact with all satellites is required to operate our satellite constellations. This facility will house new Automatic Remote Tracking Station equipment due to arrive in fiscal year 1992. An air conditioned storage facility is also required for storage of hazardous materials in containers subject to corrosion. (approximately 400 SF)

CURRENT SITUATION: The existing facility, consisting of temporary trailers, represents a significant fire hazard due to limited ingress/egress routes for building occupants. The trailers are severely deteriorated due to termite infestation and tropical/humid climatic conditions. Current mechanical and electrical systems are obsolete and are operating at maximum capacity. There is no space in the existing deteriorated facility to accommodate new equipment. It is not practical

DD FORM 1391, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION INDIAN OCEAN TRACKING STATION MAHE AIR STATION, SEYCHELLES		
4. PROJECT TITLE SATELLITE CONTROL FACILITY		5. PROJECT NUMBER NXTY903601

to renovate or upgrade the existing deteriorated trailers.
IMPACT IF NOT PROVIDED: A fire caused by outdated facility systems or electronics equipment could easily result in loss of life due to limited egress routes in the existing facility; loss of critical unrecoverable mission payload data; and the loss of a multimillion dollar, classified high national priority satellite.
ADDITIONAL: There is no criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION INDIAN OCEAN TRACKING STATION MAHE AIR STATION, SEYCHELLES		
4. PROJECT TITLE SATELLITE CONTROL FACILITY		5. PROJECT NUMBER NXTY903601

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 JAN 01
(b) Percent Complete as of Jan 90	50%
(c) Date 35% Designed	89 AUG 01
(d) Date Design Complete	90 DEC 31
(2) Basis:	
(a) Standard or Definitive Design -	
(b) Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	240
(b) All Other Design Costs	100
(c) Total	340
(d) Contract	300
(e) In-house	40
(4) Construction Start	91 AUG

b. Equipment associated with this project will be provided from other appropriations:

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
500 KVA UPS SYSTEM	3080	1991	500

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION INCIRLIK AIR BASE, TURKEY	4. COMMAND UNITED STATES AIR FORCES IN EUROPE	5. AREA CONST COST INDEX 1.00

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 89	167	1963	99				122	341	215	2,907
b. End FY 1995	167	1972	104				122	341	215	2,921

7. INVENTORY DATA ($000)

a. Total Acreage: (3,474)	
b. Inventory Total As Of: (30 SEP 89)	228,564
c. Authorization Not Yet In Inventory:	29,362
d. Authorization Requested In This Program:	4,800
e. Authorization Included In Following Program: (FY 92)	1,100
f. Planned In Next Three Program Years:	18,175
g. Remaining Deficiency:	0
h. Grand Total:	282,001

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
420-000	ALTER MUNITIONS STORAGE FACILITY	LS	3,700	JUL 88	JUN 89
842-245	WATER DISTRIBUTION MAINS	LS	1,100	MAR 84	SEP 85
		TOTAL:	4,800		

9a. Future Projects: Included in the Following Program (FY 92)

141-453	BASE OPERATIONS FACILITY	5,100 SF	1,100
		TOTAL:	1,100

9b. Future Projects: Typical Planned Next Three Years:

141-000	CW PROTECTION AVIONICS FACILITY	4,600 SF	3,850
141-000	CHEMICAL WARFARE PROTECTION-SQUADRON OPERATIONS FACILITY	2,600 SF	2,500
411-135	JET FUEL STORAGE	15,750 BL	4,550
442-758	PASSIVE DEFENSE EQUIPMENT STORAGE WAREHOUSE	14,000 SF	1,200
740-316	ADD TO AND ALTER AIRMEN COMMUNITY CENTER	LS	900

10. Mission or Major Functions: Tactical group headquarters. Provides management, command, control and direction for USAFE units assigned and supports tactical aircraft deployed on a rotational basis.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION INCIRLIK AIR BASE, TURKEY	4. PROJECT TITLE ALTER MUNITIONS STORAGE FACILITY

5. PROGRAM ELEMENT 3.51.55	6. CATEGORY CODE 420-000	7. PROJECT NUMBER ESDS913804E	8. PROJECT COST($000) 3,700

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ALTER MUNITIONS STORAGE FACILITY	LS			1,160
SUPPORTING FACILITIES				2,160
SITE IMPROVEMENTS	LS			(1,770)
UTILITIES	LS			(390)
SUBTOTAL				3,320
CONTINGENCY (5%)				166
TOTAL CONTRACT COST				3,486
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				227
TOTAL REQUEST				3,713
TOTAL REQUEST (ROUNDED)				3,700
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(8,973)

10. Description of Proposed Construction: Alter munitions storage facilities, to include demolition, excavation, dewatering, sheet piling, placing detection sensors, placing reinforced concrete to act as a casing for the intrusion detection sensors, and drainage.

11. REQUIREMENT: As required.

PROJECT: Alter munitions storage facilities. (New Mission)

REQUIREMENT: This integrated subsystem provides dispersed, secure storage for tactical munitions at locations throughout USAFE and PACAF. Remote secure storage is achieved by intrusion detection sensors around the facility integrated with the C3 subsystem.

CURRENT SITUATION: Existing munitions storage facilities do not provide the level of survivability for the weapons. The remote security control system at each installation will reduce security police manpower requirements by over 500 worldwide.

IMPACT IF NOT PROVIDED: Without this system, centrally stored munitions will not be properly secured. Alterations to existing facilities will provide safe, secure storage while greatly enhancing the munitions survivability and operational readiness.

ADDITIONAL: This project was approved for NATO recoupment. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION

INCIRLIK AIR BASE, TURKEY

4. PROJECT TITLE ALTER MUNITIONS STORAGE FACILITY	5. PROJECT NUMBER ESDS913804E

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 JUL 01
(b) Percent Complete as of Jan 90	100%
(c) Date 35% Designed	88 DEC 01
(d) Date Design Complete	89 JUN 01
(2) Basis:	
(a) Standard or Definitive Design -	YES
(b) Where Design Was Most Recently Used -	RAMSTEIN
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	162
(b) All Other Design Costs	60
(c) Total	222
(d) Contract	182
(e) In-house	40
(4) Construction Start	90 NOV

b. Equipment associated with this project will be provided from other appropriations:

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
CENTRAL SECURITY EQUIPMENT (CONSOLE W/MONITORS) (VIDEO RECEIVER/SWITCHGEAR) (DATA AUTHENICATOR/COMM) (INTERFACE UNIT/JUNCTION BOX) (MESSAGE PROCESSOR)	3080	1990	860
REMOTE FACILITY EQUIPMENT (CONSOLE/KEYBOARD/PRINTER) (JUNCTION BOX/PROCESSOR)	3080	1990	51
EQUIPMENT (VIDEO TRANSMITTER/MODEM)	3080	1990	7559
CODE TRANSFER EQUIPMENT	3080	1990	503

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION INCIRLIK AIR BASE, TURKEY	4. PROJECT TITLE WATER DISTRIBUTION MAINS

5. PROGRAM ELEMENT 2.75.96	6. CATEGORY CODE 842-245	7. PROJECT NUMBER LJYC86900600	8. PROJECT COST($000) 1,100

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
WATER DISTRIBUTION MAINS	LS			859
SUPPORTING FACILITIES				125
UTILITIES	LS			(70)
SITE IMPROVEMENTS	LS			(55)
SUBTOTAL				984
CONTINGENCY (5%)				49
TOTAL CONTRACT COST				1,033
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				67
TOTAL REQUEST				1,100
TOTAL REQUEST (ROUNDED)				1,100

10. Description of Proposed Construction: Install new water mains and fire hydrants. Includes controls, all utilities and necessary support.

11. REQUIREMENT: As required.

PROJECT: Install additional water mains and fire hydrants. (Current Mission)

REQUIREMENT: An adequate water distribution system is required to provide water in sufficient quantity and pressure for domestic, industrial and fire fighting purposes.

CURRENT SITUATION: The present water distribution system has insufficient capacity to serve the fire fighting requirements in two dispersed aircraft parking areas. Fire fighting equipment cannot operate at maximum capacity because the distribution system has insufficient water flow. The nearest water source with sufficient capacity is a three mile round trip away. This seriously restricts the fire department's ability to fight a fire in the aircraft parking area.

IMPACT IF NOT PROVIDED: The fire department will continue to have inadequate water capacity for fire fighting, creating the potential for unnecessary loss of aircraft and property.

ADDITIONAL: This project is not eligible for NATO funding. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION INCIRLIK AIR BASE, TURKEY		
4. PROJECT TITLE WATER DISTRIBUTION MAINS		5. PROJECT NUMBER LJYC86900600

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	84 MAR 10
(b) Percent Complete as of Jan 90	100%
(c) Date 35% Designed	84 MAY 10
(d) Date Design Complete	85 SEP 30
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	38
(b) All Other Design Costs	12
(c) Total	50
(d) Contract	38
(e) In-house	12
(4) Construction Start	90 APR

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION PIRINCLIK AIR STATION, TURKEY	4. COMMAND UNITED STATES AIR FORCES IN EUROPE	5. AREA CONST COST INDEX 1.00

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 89	16	115							110	241
b. End FY 1995	16	117							110	243

7. INVENTORY DATA ($000)

a. Total Acreage: (176)	
b. Inventory Total As Of: (30 SEP 89)	17,012
c. Authorization Not Yet In Inventory:	3,000
d. Authorization Requested In This Program:	1,250
e. Authorization Included In Following Program: (FY 92)	0
f. Planned In Next Three Program Years:	5,500
g. Remaining Deficiency:	0
h. Grand Total:	26,762

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
724-415	DORMITORY	20 PN	1,250	MAY 89	MAY 90
		TOTAL:	1,250		

9a. Future Projects: Included in the Following Program (FY 92) NONE

9b. Future Projects: Typical Planned Next Three Years:

214-425	VEHICLE MAINTENANCE COMPLEX	17,000 SF	2,200
740-669	COMPOSITE RECREATION CENTER	9,300 SF	2,000
740-674	ADD TO AND ALTER GYMNASIUM	14,000 SF	1,300

10. Mission or Major Functions: USAFE Air Base Squadron provides support function and hosts a Space Command Squadron.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION PIRINCLIK AIR STATION, TURKEY	4. PROJECT TITLE DORMITORY

5. PROGRAM ELEMENT 2.75.96	6. CATEGORY CODE 724-415	7. PROJECT NUMBER FGOT913000	8. PROJECT COST($000) 1,250

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
DORMITORY (20 PN)	SF	12,600	66	832
SUPPORTING FACILITIES				295
SITE IMPROVEMENTS	LS			(60)
COMMUNICATIONS SUPPORT	LS			(35)
UTILITIES	LS			(120)
PAVEMENTS	LS			(80)
SUBTOTAL				1,127
CONTINGENCY (5%)				56
TOTAL CONTRACT COST				1,183
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				77
TOTAL REQUEST				1,260
TOTAL REQUEST (ROUNDED)				1,250

10. Description of Proposed Construction: Reinforced concrete foundation, floor slab, masonry walls and roof system. Includes laundry rooms and storage area, lounge, fire protection and necessary support. Air Conditioning: 40 Tons. Grade Mix: 20 01-03.

11. REQUIREMENT: 20 PN ADEQUATE: 0 SUBSTANDARD: 17 PN

PROJECT: Construct a dormitory. (Current Mission)

REQUIREMENT: Adequate living quarters for permanent party officers and visiting officers on temporary duty to Pirinclik. On-base quarters are required to assure these officers are provided a comfortable and healthful environment for proper rest, relaxation and individual well being. Properly designed and furnished living quarters providing some degree of individual privacy are essential to creating an atmosphere conducive to professional work habits.

CURRENT SITUATION: The existing facilities are 1953 quonset huts relocated from North Africa. The structural steel frames are corroded beyond repair. These facilities lack privacy, insulation, adequate utilities, and fire and safety systems. Visiting officers must often use an inadequate and substandard off-base hotel 20 miles away. Because of the nature of the base mission, long shift hours, short duty response time and constant terrorist threat, permanent party officers are required to live on base. Four substandard facilities will be demolished as a result of this project.

IMPACT IF NOT PROVIDED: Substandard living conditions for officers will continue to persist, impacting morale, productivity and career retention. This situation continues to subject our officers billeted off-base to terrorist attacks.

ADDITIONAL: This project is not eligible for NATO funding. This project

26-503 O—90——21

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION PIRINCLIK AIR STATION, TURKEY		
4. PROJECT TITLE DORMITORY		5. PROJECT NUMBER FGQT913000

meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION PIRINCLIK AIR STATION, TURKEY		
4. PROJECT TITLE DORMITORY		5. PROJECT NUMBER FGQT913000

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:

(a) Date Design Started	89 MAY 15
(b) Percent Complete as of Jan 90	70%
(c) Date 35% Designed	89 JUL 15
(d) Date Design Complete	90 MAY 15

(2) Basis:

(a) Standard or Definitive Design -	YES
(b) Where Design Was Most Recently Used -	PIRINCLI

(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	99
(b) All Other Design Costs	16
(c) Total	115
(d) Contract	99
(e) In-house	16

(4) Construction Start — 91 MAR

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE

3. INSTALLATION AND LOCATION RAF ALCONBURY, UNITED KINGDOM	4. COMMAND UNITED STATES AIR FORCES IN EUROPE	5. AREA CONST COST INDEX 1.50

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 89	249	2860	107				1	1	114	3,332
b. End FY 1995	251	2853	103				1	1	114	3,323

7. INVENTORY DATA ($000)

a. Total Acreage: (1,945)	
b. Inventory Total As Of: (30 SEP 89)	72,558
c. Authorization Not Yet In Inventory:	18,091
d. Authorization Requested In This Program:	7,300
e. Authorization Included In Following Program: (FY 92)	3,300
f. Planned In Next Three Program Years:	18,450
g. Remaining Deficiency:	0
h. Grand Total:	119,699

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	CMPL
721-312	ALTER DORMITORIES	212 PN	4,100	JUN 86	SEP 87
740-674	ADD TO ALTER PHYSICAL FITNESS CENTER	LS	3,200	JUN 84	MAR 89
		TOTAL:	7,300		

9a. Future Projects: Included in the Following Program (FY 92)

440-000	COMBAT REPAIR EQUIPMENT STORAGE WAREHOUSE	17,000 SF	1,700
841-427	ADD TO WATER STORAGE	LS	1,600
		TOTAL:	3,300

9b. Future Projects: Typical Planned Next Three Years:

141-000	CHEMICAL WARFARE PROTECTION-SQUADRON OPERATIONS FACILITY	2,600 SF	2,800
442-758	PASSIVE DEFENSE EQUIPMENT STORAGE FACILITY	14,000 SF	1,600
442-758	COMBAT REPAIR EQUIPMENT STORAGE EXPANDED	15,500 SF	1,650
610-243	COMBAT READINESS CENTER	46,000 SF	7,700
721-312	ALTER DORMITORY	106 PN	2,600

10. Mission or Major Functions: Tactical fighter wing provides management, command, control and direction for USAFE assigned units. Base supports two tactical fighter squadrons (A-10), and a reconnaissance squadron (SAC) (TR-1).

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION RAF ALCONBURY, UNITED KINGDOM	4. PROJECT TITLE ALTER DORMITORIES

5. PROGRAM ELEMENT 2.75.96	6. CATEGORY CODE 721-312	7. PROJECT NUMBER ADEY889001	8. PROJECT COST($000) 4,100

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ALTER DORMITORIES (212 PN)	SF	34,500	92	3,174
SUPPORTING FACILITIES				455
UTILITIES	LS			(170)
PAVEMENTS	LS			(155)
SITE IMPROVEMENTS	LS			(130)
SUBTOTAL				3,629
CONTINGENCY (10%)				363
TOTAL CONTRACT COST				3,992
SUPERVISION, INSPECTION AND OVERHEAD (2.5%)				100
TOTAL REQUEST				4,092
TOTAL REQUEST (ROUNDED)				4,100

10. Description of Proposed Construction: All structural, mechanical and electrical, conversion to room-bath-room, improved noise attenuation, fire protection, utilities and necessary support. Grade Mix: 212 E1-E4.

11. REQUIREMENT: 1,693 PN ADEQUATE: 736 PN SUBSTANDARD: 886 PN

PROJECT: Alter two dormitories. (Current Mission)

REQUIREMENT: A major Air Force objective is to provide unaccompanied enlisted personnel with housing that will be conducive to proper rest, relaxation and personal well-being. Properly designed and furnished quarters providing some degree of individual privacy are essential to the successful accomplishment of the increasingly complicated and important jobs these people must perform. The lack of such quarters is a known irritant.

CURRENT SITUATION: The facilities to be upgraded were constructed in 1970. They lack privacy and have inadequate lighting, poor insulation and sound attenuation, and inadequate electrical and mechanical systems. The remaining substandard spaces will be upgraded in future programs.

IMPACT IF NOT PROVIDED: Substandard living conditions will persist, impacting morale, productivity and career retention.

ADDITIONAL: This project is not eligible for NATO funding. An economic analysis indicates the cost-effectiveness of this project. An economic analysis has been prepared comparing this project with the alternatives of new construction and status quo operations. On the basis of net present value, as calculated over the life of the project, this alternative was found to be the most economically efficient. This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION

RAF ALCONBURY, UNITED KINGDOM

4. PROJECT TITLE ALTER DORMITORIES	5. PROJECT NUMBER ADEY889001

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	86 JUN 04
(b) Percent Complete as of Jan 90	100%
(c) Date 35% Designed	86 JUL 30
(d) Date Design Complete	87 SEP 30
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	137
(b) All Other Design Costs	
(c) Total	137
(d) Contract	137
(e) In-house	
(4) Construction Start	90 JAN

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION RAF ALCONBURY, UNITED KINGDOM	4. PROJECT TITLE ADD TO ALTER PHYSICAL FITNESS CENTER

5. PROGRAM ELEMENT 2.75.96	6. CATEGORY CODE 740-674	7. PROJECT NUMBER ADEY869002	8. PROJECT COST($000) 3,200

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ADD TO AND ALTER PHYSICAL FITNESS CENTER	LS			2,801
ADDITION	SF	17,400	140	(2,436)
ALTERATION	LS			(365)
SUPPORTING FACILITIES				180
COMMUNICATIONS SUPPORT	LS			(10)
UTILITIES	LS			(100)
SITE IMPROVEMENTS	LS			(70)
SUBTOTAL				2,981
CONTINGENCY (5%)				149
TOTAL CONTRACT COST				3,130
SUPERVISION, INSPECTION AND OVERHEAD (2.5%)				78
TOTAL REQUEST				3,208
TOTAL REQUEST (ROUNDED)				3,200

10. Description of Proposed Construction: Reinforced concrete foundation, floor slab, masonry walls and roof. Area includes racquetball courts, exercise room, steam room, locker room and other necessary support.

11. REQUIREMENT: 51,600 LS ADEQUATE: 17,515 LS SUBSTANDARD: 2,550 LS

PROJECT: Add to and alter the physical fitness center. (Current Mission)

REQUIREMENT: Functional and adequate physical fitness centers are an essential feature of the military living and working environment. Modern facilities providing for exercise, as well as team and individual sports, significantly contribute to the physical development and improved morale of assigned personnel and are essential to Air Force retention efforts.

CURRENT SITUATION: The existing facility is too small and provides less than one-half the space necessary to support the base population. Flying squadron operations facilities are not equipped with the universal weight rooms required to keep pilots in top physical condition. This creates an additional burden on the existing facility. Intramural, youth league and organized base athletic activities are limited due to a lack of facilities. There are no typical American athletic facilities in the off-base community. During peak lunch and evening hours, people are turned away because of the limited space available.

IMPACT IF NOT PROVIDED: Physical fitness and weight control programs will not be adequately accomplished in the existing undersized, substandard facility. Physical training programs will continue to suffer and detract from the Air Force's ability to retain highly trained and quality people.

ADDITIONAL: This project is not eligible for NATO funding. This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION RAF ALCONBURY, UNITED KINGDOM		
4. PROJECT TITLE ADD TO ALTER PHYSICAL FITNESS CENTER		5. PROJECT NUMBER ADEY869002

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	84 JUN 19
(b) Percent Complete as of Jan 90	100%
(c) Date 35% Designed	85 APR 30
(d) Date Design Complete	89 MAR 01
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	105
(b) All Other Design Costs	15
(c) Total	120
(d) Contract	105
(e) In-house	15
(4) Construction Start	90 JAN

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION RAF BENTWATERS, UNITED KINGDOM	4. COMMAND UNITED STATES AIR FORCES IN EUROPE	5. AREA CONST COST INDEX 1.50

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 89	266	3500	148				4	28	6	3,952
b. End FY 1995	283	3605	153				4	28	6	4,079

7. INVENTORY DATA ($000)

a. Total Acreage: (1,088)	
b. Inventory Total As Of: (30 SEP 89)	73,601
c. Authorization Not Yet In Inventory:	14,100
d. Authorization Requested In This Program:	1,500
e. Authorization Included In Following Program: (FY 92)	4,300
f. Planned In Next Three Program Years:	47,875
g. Remaining Deficiency:	0
h. Grand Total:	141,376

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	CMPL
730-443	CENTRAL POST OFFICE	7,600 SF	1,500	JAN 85	JUL 88
		TOTAL:	1,500		

9a. Future Projects: Included in the Following Program (FY 92)

721-312	ADD TO AND ALTER DORMITORY	220 PN	4,300
		TOTAL:	4,300

9b. Future Projects: Typical Planned Next Three Years:

141-000	CHEMICAL WARFARE PROTECTION - AVIONICS MAINTENANCE FACILITY	4,600 SF	4,500
411-135	FUEL STORAGE	LS	3,150
422-264	MUNITIONS STORAGE IGLOOS	7 EA	5,030
442-000	COMBAT REPAIR EQUIPMENT STORAGE WAREHOUSE	17,000 SF	1,750
442-758	PASSIVE DEFENSE EQUIPMENT STORAGE FACILITY	14,000 SF	1,600

10. Mission or Major Functions: Hosts a wing headquarters which is responsible for management, command, control and direction for USAFE units assigned to this base and those units assigned to nearby RAF Woodbridge and tactical fighter squadrons operating A-10 and F-16 aircraft in support a contingency and war plans.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION RAF BENTWATERS, UNITED KINGDOM	4. PROJECT TITLE CENTRAL POST OFFICE

5. PROGRAM ELEMENT 2.75.96	6. CATEGORY CODE 730-443	7. PROJECT NUMBER BHVW879007	8. PROJECT COST($000) 1,500

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
CENTRAL POST OFFICE	SF	7,600	155	1,178
SUPPORTING FACILITIES				210
UTILITIES	LS			(90)
SITE IMPROVEMENTS	LS			(120)
SUBTOTAL				1,388
CONTINGENCY (5%)				69
TOTAL CONTRACT COST				1,457
SUPERVISION, INSPECTION AND OVERHEAD (2.5%)				36
TOTAL REQUEST				1,493
TOTAL REQUEST (ROUNDED)				1,500

10. Description of Proposed Construction: Reinforced concrete foundation, floor slab, masonry walls and roof system. Includes mail delivery dock, lockbox area, mail processing space, package holding and other necessary support.

11. REQUIREMENT: 10,100 SF ADEQUATE: 2,500 SF SUBSTANDARD: 7,834 SF

PROJECT: Construct a post office. (Current Mission)

REQUIREMENT: A central post office for the receipt of personal mail. The facility also serves specialized functions including postal directory, the USAF hospital and self-service lockboxes for assigned military and DoD members and their dependents.

CURRENT SITUATION: There are currently four facilities serving the wing postal requirements, one at Bentwaters and three at Woodbridge. The facility at Bentwaters and two at Woodbridge are World War II quonset huts. The facilities are inadequate in size and expensive to maintain. There is a current shortage of 130 lockboxes, and space is not available to install additional lockboxes. The one adequate facility at Woodbridge will be retained as a branch post office to serve the people at Woodbridge. The other three inadequate facilities will be demolished upon completion of this project.

IMPACT IF NOT PROVIDED: The existing deficiency in lockboxes and deteriorated facilities will continue to adversely impact postal operations and morale.

ADDITIONAL: This project is not eligible for NATO funding. This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION RAF BENTWATERS, UNITED KINGDOM		
4. PROJECT TITLE CENTRAL POST OFFICE		5. PROJECT NUMBER BHVW879007

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	85 JAN 25
(b) Percent Complete as of Jan 90	100%
(c) Date 35% Designed	85 SEP 30
(d) Date Design Complete	88 JUL 11
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	32
(b) All Other Design Costs	
(c) Total	32
(d) Contract	32
(e) In-house	
(4) Construction Start	90 JAN

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION RAF CHICKSANDS, UNITED KINGDOM	4. COMMAND UNITED STATES AIR FORCES IN EUROPE	5. AREA CONST COST INDEX 1.50

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 89	63	1274	69				1		128	1,535
b. End FY 1995	62	1276	71				1		128	1,538

7. INVENTORY DATA ($000)

a. Total Acreage: (411)	
b. Inventory Total As Of: (30 SEP 89)	30,047
c. Authorization Not Yet In Inventory:	0
d. Authorization Requested In This Program:	12,200
e. Authorization Included In Following Program: (FY 92)	5,910
f. Planned In Next Three Program Years:	5,180
g. Remaining Deficiency:	0
h. Grand Total:	53,337

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
131-132	SATELLITE COMMUNICATIONS TERMINAL	15,500 SF	12,200	MAR 89	MAY 90
		TOTAL:	12,200		

9a. Future Projects: Included in the Following Program (FY 92)

141-456	UPGRADE OPERATIONS FACILITY	89,500 SF	1,580
141-456	OPERATIONS FACILITY TECHNICAL MODERNIZATION	LS	1,580
721-312	ADD TO AND ALTER AMN PERMANENT PARTY/PCS DORM	170 PN	2,750
		TOTAL:	5,910

9b. Future Projects: Typical Planned Next Three Years:

130-835	ADD TO AND ALTER SECURITY POLICE OPERATIONS FACILITY	7,000 SF	1,500
131-111		LS	380
721-312	ADD TO AND ALTER DORMITORY	136 PN	3,300

10. Mission or Major Functions: A United Kingdom Base which supports an USAF Air Base Group, a communications squadron, electronic security group and OSI office.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION RAF CHICKSANDS, UNITED KINGDOM	4. PROJECT TITLE SATELLITE COMMUNICATIONS TERMINAL

5. PROGRAM ELEMENT 3.36.05	6. CATEGORY CODE 131-132	7. PROJECT NUMBER DPWD9280001	8. PROJECT COST($000) 12,200

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
SATELLITE COMMUNICATIONS TERMINAL	SF	15,500	650	10,075
SUPPORTING FACILITIES				1,200
UTILITIES	LS			(420)
PAVEMENTS	LS			(140)
SITE IMPROVEMENTS	LS			(40)
EMERGENCY POWER	KW	800	750	(600)
SUBTOTAL				11,275
CONTINGENCY (5%)				564
TOTAL CONTRACT COST				11,839
SUPERVISION, INSPECTION AND OVERHEAD (2.5%)				296
TOTAL REQUEST				12,135
TOTAL REQUEST (ROUNDED)				12,200

10. Description of Proposed Construction: Reinforced concrete footings, beams, floor slabs, walls and roof systems. Includes waveguide trench, fire protection systems, exterior electric, pre-wiring, communications ducts and other necessary support. Also includes radio frequency shielding and semihardening. Air Conditioning: 50 Tons.

11. REQUIREMENT: 15,500 SF ADEQUATE: 0 SUBSTANDARD: 0

PROJECT: Construct a semihardened satellite communications ground terminal complex. (New Mission)

REQUIREMENT: Adequate facilities to house satellite communications (SATCOM) ground terminals. The SATCOM provides long distance communications to support critical command, control, intelligence and warning activities, as well as the National Command Authorities. The SATCOM is an important component in the worldwide defense communications system and must provide rapid and reliable service.

CURRENT SITUATION: The mission is currently being supported with portable equipment vans that do not provide adequate space and are not protected from high electromagnetic pulse (HEMP). The acquisition of additional terminals to support other missions cannot be housed in these facilities.

IMPACT IF NOT PROVIDED: The facilities now in use will continue to be vulnerable to and damaged from nuclear attack.

ADDITIONAL: This project is not eligible for NATO funding. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION RAF CHICKSANDS, UNITED KINGDOM		
4. PROJECT TITLE SATELLITE COMMUNICATIONS TERMINAL		5. PROJECT NUMBER DPWD9280001

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:

(a) Date Design Started	89 MAR 01
(b) Percent Complete as of Jan 90	65%
(c) Date 35% Designed	89 JUL 01
(d) Date Design Complete	90 MAY 01

(2) Basis:

(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A

(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	670
(b) All Other Design Costs	
(c) Total	670
(d) Contract	670
(e) In-house	

(4) Construction Start	91 FEB

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION HIGH WYCOMBE AIR STATION, UNITED KINGDOM	4. COMMAND UNITED STATES AIR FORCES IN EUROPE	5. AREA CONST COST INDEX 1.50

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 89	17	130	6				6	76	96	331
b. End FY 1995	17	130	6				6	76	96	331

7. INVENTORY DATA ($000)

a. Total Acreage: (101)	
b. Inventory Total As Of: (30 SEP 89)	14,812
c. Authorization Not Yet In Inventory:	0
d. Authorization Requested In This Program:	4,200
e. Authorization Included In Following Program: (FY 92)	0
f. Planned In Next Three Program Years:	6,500
g. Remaining Deficiency:	0
h. Grand Total:	25,512

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	CMPL
721-312	DORMITORY	120 PN	4,200	JAN 88	AUG 89
		TOTAL:	4,200		

9a. Future Projects: Included in the Following Program (FY 92) NONE

9b. Future Projects: Typical Planned Next Three Years:

219-944	BASE CIVIL ENGINEERING COMPLEX	8,000 SF	2,100
610-243	COMBAT READINESS CENTER	10,500 SF	1,900
740-884	CHILD DEVELOPMENT CENTER	10,000 SF	2,500

10. Mission or Major Functions: The host unit, 7520th Air Base Squadron, provides support to US Government agencies and visiting US military personnel in the London area.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION HIGH WYCOMBE AIR STATION, UNITED KINGDOM	4. PROJECT TITLE DORMITORY

5. PROGRAM ELEMENT 2.75.96	6. CATEGORY CODE 721-312	7. PROJECT NUMBER KOKU889002	8. PROJECT COST($000) 4,200

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
DORMITORY (120 PN)	SF	22,800	145	3,306
SUPPORTING FACILITIES				610
UTILITIES	LS			(220)
PAVEMENTS	LS			(185)
SITE IMPROVEMENTS	LS			(205)
SUBTOTAL				3,916
CONTINGENCY (5%)				196
TOTAL CONTRACT COST				4,112
SUPERVISION, INSPECTION AND OVERHEAD (2.5%)				103
TOTAL REQUEST				4,215
TOTAL REQUEST (ROUNDED)				4,200

10. Description of Proposed Construction: Reinforced concrete foundation, floor slab, masonry walls and roof system. Includes exterior entrances, room-bath-room, lounges, centralized storage and laundry rooms. All fire protection and other necessary support.
Grade Mix: 120 E1-E4.

11. REQUIREMENT: 130 PN ADEQUATE: 10 PN SUBSTANDARD: 24 PN

PROJECT: Construct a dormitory. (Current Mission)

REQUIREMENT: A major Air Force objective is to provide unaccompanied enlisted people with housing that is conducive to their proper rest, relaxation and personal well-being. Properly designed and furnished quarters which provide some degree of individual privacy are essential to the successful accomplishment of the increasingly complicated and important jobs these people must perform.

CURRENT SITUATION: The only available on-base quarters are three temporary facilities providing 24 substandard spaces. These quarters are used until permanent housing off-base is found. Local rentals are expensive and put a severe financial strain on the young enlisted members.

IMPACT IF NOT PROVIDED: Substandard and expensive living conditions for military members will continue to persist, resulting in the degradation of morale, productivity and career satisfaction.

ADDITIONAL: This project is not eligible for NATO funding. An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost efficient over the life of the project. This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION

HIGH WYCOMBE AIR STATION, UNITED KINGDOM

4. PROJECT TITLE DORMITORY	5. PROJECT NUMBER KOKU889002

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 JAN 13
(b) Percent Complete as of Jan 90	100%
(c) Date 35% Designed	88 JUL 27
(d) Date Design Complete	89 AUG 31
(2) Basis:	
(a) Standard or Definitive Design -	YES
(b) Where Design Was Most Recently Used -	LAKENHEA
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	100
(b) All Other Design Costs	
(c) Total	100
(d) Contract	100
(e) In-house	
(4) Construction Start	90 JAN

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION RAF LAKENHEATH, UNITED KINGDOM	4. COMMAND UNITED STATES AIR FORCES IN EUROPE	5. AREA CONST COST INDEX 1.50

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 89	538	4229	230				2	7	525	5,531
b. End FY 1995	493	4369	226				2	7	525	5,622

7. INVENTORY DATA ($000)

a. Total Acreage: (2,334)	
b. Inventory Total As Of: (30 SEP 89)	146,279
c. Authorization Not Yet In Inventory:	5,420
d. Authorization Requested In This Program:	8,105
e. Authorization Included In Following Program: (FY 92)	7,550
f. Planned In Next Three Program Years:	48,050
g. Remaining Deficiency:	0
h. Grand Total:	215,404

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
420-000	ALTER MUNITIONS STORAGE FACILITY	LS	4,950	JUL 88	JUN 89
721-312	ALTER DORMITORIES	128 PN	3,155	MAR 88	SEP 90
		TOTAL:	8,105		

9a. Future Projects: Included in the Following Program (FY 92)

422-264	MUNITIONS STORAGE IGLOOS	10,000 SF	2,900
440-000	COMBAT REPAIR EQUIPMENT STORAGE FACILITY	17,000 SF	1,250
721-312	ADD TO AND ALTER DORMITORIES	256 PN	2,300
871-183	STORM DRAINAGE DISPOSAL	LS	1,100
		TOTAL:	7,550

9b. Future Projects: Typical Planned Next Three Years:

141-000	CW PROTECTION - SQUADRON OPERATIONS FACILITY	2,600 SF	2,800
141-000	CW PROTECTION SQUADRON OPERATIONS FACILITY	2,600 SF	3,000
141-753	CW PROTECTION SQUADRON OPERATIONS FACILITY	2,600 SF	2,800
442-758	COMBAT REPAIR EQUIPMENT STORACE FACILITY	15,500 SF	1,550
721-312	DORMITORY	192 PN	4,200

10. Mission or Major Functions: This base hosts a tactical fighter wing headquarters which is responsible for management, command, control and direction for USAFE units assigned to the base and four tactical fighter squadrons operating F-111F type aircraft in support of contingency and war plans.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION RAF LAKENHEATH, UNITED KINGDOM	4. PROJECT TITLE ALTER MUNITIONS STORAGE FACILITY

5. PROGRAM ELEMENT 3.51.55	6. CATEGORY CODE 420-000	7. PROJECT NUMBER ESDS913804A	8. PROJECT COST($000) 4,950

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ALTER MUNITIONS STORAGE FACILITY	LS			1,591
SUPPORTING FACILITIES				3,010
SITE IMPROVEMENTS	LS			(3,010)
SUBTOTAL				4,601
CONTINGENCY (5%)				230
TOTAL CONTRACT COST				4,831
SUPERVISION, INSPECTION AND OVERHEAD (2.5%)				121
TOTAL REQUEST				4,952
TOTAL REQUEST (ROUNDED)				4,950
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(14,973)

10. Description of Proposed Construction: Alter munitions storage facilities, to include demolition, excavation, dewatering, sheet piling, placing detection sensors, placing reinforced concrete to act as a casing for the intrusion detection sensors, and drainage.

11. REQUIREMENT: As required.

PROJECT: Alter munitions storage facilities. (New Mission)

REQUIREMENT: This integrated subsystem provides dispersed, secure storage for tactical munitions at locations throughout USAFE and PACAF. Remote secure storage is achieved by intrusion detection sensors around the facility integrated with the C3 subsystem.

CURRENT SITUATION: Existing munitions storage facilities do not provide the level of survivability for the weapons. The remote security control system at each installation will reduce security police manpower requirements by over 500 worldwide.

IMPACT IF NOT PROVIDED: Without this system, centrally stored munitions will not be properly secured. Alterations to existing facilities will provide safe, secure storage while greatly enhancing the munitions survivability and operational readiness.

ADDITIONAL: This project was approved for NATO recoupment. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION RAF LAKENHEATH, UNITED KINGDOM		
4. PROJECT TITLE ALTER MUNITIONS STORAGE FACILITY		5. PROJECT NUMBER ESDS913804A

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 JUL 01
(b) Percent Complete as of Jan 90	100%
(c) Date 35% Designed	88 DEC 01
(d) Date Design Complete	89 JUN 01
(2) Basis:	
(a) Standard or Definitive Design -	YES
(b) Where Design Was Most Recently Used -	RAMSTEIN
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	256
(b) All Other Design Costs	50
(c) Total	306
(d) Contract	260
(e) In-house	46
(4) Construction Start	90 OCT

b. Equipment associated with this project will be provided from other appropriations:

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
CENTRAL SECURITY EQUIPMENT (CONSOLE W/MONITORS) (VIDEO RECEIVER/SWITCHER) (DATA AUTHENICATOR/COMM) (MESSAGE PROCESSOR) (INTERFACE JUNCTION BOX)	3080	1990	860
REMOTE FACILITY EQUIPMENT (CONSOLE/KEYBOARD/PRINTER) (JUNCTION BOX/PROCESSOR)	3080	1990	51
EQUIPMENT (VIDEO TRANSMITTER/MODEM)	3080	1990	13559
CODE TRANSFER EQUIPMENT	3080	1990	503

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION RAF LAKENHEATH, UNITED KINGDOM	4. PROJECT TITLE ALTER DORMITORIES

5. PROGRAM ELEMENT 2.75.96	6. CATEGORY CODE 721-312	7. PROJECT NUMBER MSET889011	8. PROJECT COST($000) 3,155

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ALTER DORMITORIES (128 PN)	SF	26,000	87	2,262
SUPPORTING FACILITIES				535
COMMUNICATIONS SUPPORT	LS			(105)
UTILITIES	LS			(225)
SITE IMPROVEMENTS	LS			(115)
PAVEMENTS	LS			(90)
SUBTOTAL				2,797
CONTINGENCY (10%)				280
TOTAL CONTRACT COST				3,077
SUPERVISION, INSPECTION AND OVERHEAD (2.5%)				77
TOTAL REQUEST				3,154
TOTAL REQUEST (ROUNDED)				3,155

10. Description of Proposed Construction: All structural, electrical and mechanical required to convert to room-bath-room configuration with exterior entrances. Upgrades the lounge, centralized storage, laundry and support space. Includes fire protection and all other necessary support. Grade Mix: 128 E1-E4.

11. REQUIREMENT: 2,322 PN ADEQUATE: 345 PN SUBSTANDARD: 1,540 PN

PROJECT: Alter two dormitories. (Current Mission)

REQUIREMENT: A major Air Force objective is to provide unaccompanied enlisted people with housing that is conducive to proper rest, relaxation and personal well-being. Properly designed and furnished quarters providing some degree of individual privacy are essential to the successful accomplishment of the increasingly complicated and important jobs these people must perform. The lack of such quarters is a known irritant.

CURRENT SITUATION: The facilities to be upgraded were constructed in 1960. They lack privacy and have poor insulation and sound attenuation. Their electrical and mechanical systems and lighting are inadequate, and they lack the amenities to adequately house enlisted members. Local rentals and utilities are so expensive enlisted personnel are place under a severe financial hardship when living off-base.

IMPACT IF NOT PROVIDED: Substandard living conditions will persist, impacting morale, productivity and career retention.

ADDITIONAL: This project is not eligible for NATO funding. This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION RAF LAKENHEATH, UNITED KINGDOM		
4. PROJECT TITLE ALTER DORMITORIES		5. PROJECT NUMBER MSET889011

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 MAR 01
(b) Percent Complete as of Jan 90	50%
(c) Date 35% Designed	88 AUG 30
(d) Date Design Complete	90 SEP 15
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	158
(b) All Other Design Costs	
(c) Total	158
(d) Contract	158
(e) In-house	
(4) Construction Start	91 JAN

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION RAF MILDENHALL, UNITED KINGDOM	4. COMMAND UNITED STATES AIR FORCES IN EUROPE	5. AREA CONST COST INDEX 1.50

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 89	290	2554	187				143	151	7	3,332
b. End FY 1995	285	2548	187				143	151	7	3,321

7. INVENTORY DATA ($000)

a. Total Acreage: (1,144)	
b. Inventory Total As Of: (30 SEP 89)	58,128
c. Authorization Not Yet In Inventory:	4,857
d. Authorization Requested In This Program:	1,100
e. Authorization Included In Following Program: (FY 92)	2,050
f. Planned In Next Three Program Years:	29,250
g. Remaining Deficiency:	0
h. Grand Total:	95,385

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	CMPL
740-674	ADD TO AND ALTER PHYSICAL FITNESS CENTER	LS	1,100	JAN 85	JUN 90
		TOTAL:	1,100		

9a. Future Projects: Included in the Following Program (FY 92)

722-351	ADD TO AND ALTER AIRMEN DINING HALL	LS	2,050
		TOTAL:	2,050

9b. Future Projects: Typical Planned Next Three Years:

411-135	JET FUEL STORAGE	LS	3,400
440-000	COMBAT REPAIR EQUIPMENT STORAGE FACILITY	17,000 SF	1,750
442-758	PASSIVE DEFENSE EQUIPMENT STORAGE WAREHOUSE	14,000 SF	1,450
442-758	COMBAT REPAIR EQUIPMENT STORAGE FACILITY	15,500 SF	1,650
721-315	TRANSIENT DORMITORY	168 PN	3,150

10. Mission or Major Functions: This base hosts a numbered Air Force headquarters which provides management, command, control and direction for USAFE units in Great Britain. The host unit, an airborne command and control wing supports USCINCEUR's command and control aircraft (EC-135) and also provides management, command, control and direction for assigned USAFE units; support rotational C-130 airlift units; provides support to a strategic wing which provides direction to air refueling aircraft and strategic reconnaissance assets.

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION RAF MILDENHALL, UNITED KINGDOM	4. PROJECT TITLE ADD TO AND ALTER PHYSICAL FITNESS CENTER

5. PROGRAM ELEMENT 2.75.96	6. CATEGORY CODE 740-674	7. PROJECT NUMBER QFQE899001	8. PROJECT COST($000) 1,100

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ADD TO AND ALTER PHYSICAL FITNESS CENTER	LS			800
ADDITION	SF	5,000	140	(700)
ALTERATION	LS			(100)
SUPPORTING FACILITIES				210
PAVEMENTS	LS			(70)
UTILITIES	LS			(100)
SITE IMPROVEMENTS	LS			(40)
SUBTOTAL				1,010
CONTINGENCY (5%)				51
TOTAL CONTRACT COST				1,061
SUPERVISION, INSPECTION AND OVERHEAD (2.5%)				27
TOTAL REQUEST				1,088
TOTAL REQUEST (ROUNDED)				1,100

10. Description of Proposed Construction: Reinforced concrete foundation floor slab, masonry walls and roof system. Area includes two racquetball courts, exercise room, equipment storage areas and locker rooms. Includes fire protection and all other necessary support.

11. REQUIREMENT: 31,830 SF ADEQUATE: 23,232 SF SUBSTANDARD: 0

PROJECT: Add to and alter the physical fitness center. (Current Mission)

REQUIREMENT: Functional and adequately-sized physical fitness centers are an essential feature of the living and working environment of military people. Modern facilities providing for exercise, as well as team and individual sports, significantly contribute to the physical development and improved morale of assigned members and are essential to Air Force retention efforts.

CURRENT SITUATION: The present facility was constructed in the mid-1970s and the base population has since doubled in size. The facility is now too small for the military population. The facility is not configured to adequately accommodate the increase in female military personnel. The female locker room is undersized and has only two showers, a single toilet and a small sauna. The base population supports a facility with 14 handball and racquetball courts, the facility currently has only four courts. The male locker room is too small to accommodate the additional players from visiting varsity teams.

IMPACT IF NOT PROVIDED: The current physical fitness and weight control programs cannot be adequately accomplished in the existing undersized facility. Physical fitness training programs will continue to suffer, having an adverse impact on morale and detracting from the Air Force's ability to retain highly trained and motivated people.

ADDITIONAL: This project is not eligible for NATO funding. This project

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION RAF MILDENHALL, UNITED KINGDOM		
4. PROJECT TITLE ADD TO AND ALTER PHYSICAL FITNESS CENTER		5. PROJECT NUMBER QFQE899001

meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION RAF MILDENHALL, UNITED KINGDOM		
4. PROJECT TITLE ADD TO AND ALTER PHYSICAL FITNESS CENTER		5. PROJECT NUMBER QFQE899001

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	85 JAN 31
(b) Percent Complete as of Jan 90	70%
(c) Date 35% Designed	89 JUN 01
(d) Date Design Complete	90 JUN 01
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	55
(b) All Other Design Costs	
(c) Total	55
(d) Contract	55
(e) In-house	
(4) Construction Start	91 JAN

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION CLASSIFIED LOCATION	4. COMMAND	5. AREA CONST COST INDEX 0.00

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 89										
b. End FY 1995										

7. INVENTORY DATA ($000)

a. Total Acreage: (0)	
b. Inventory Total As Of: (30 SEP 89)	0
c. Authorization Not Yet In Inventory:	0
d. Authorization Requested In This Program:	4,800
e. Authorization Included In Following Program: (FY 92)	3,500
f. Planned In Next Three Program Years:	25,627
g. Remaining Deficiency:	0
h. Grand Total:	33,927

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
171-618	F-15E FIELD TRAINING FACILITY	14,700 SF	2,400	JUL 88	JUL 90
216-642	F-15E CONVENTIONAL MUNITIONS MAINTENANCE FACILITY	LS	2,400	SEP 88	JUL 90
		TOTAL:	4,800		

9a. Future Projects: Included in the Following Program (FY 92)

211-179	F-15E ALTER INTERNAL FUELS MAINTENANCE FACILITY	LS	1,370
211-193	F-15E SOUND SUPPRESSOR SUPPORT	1,452 SY	300
218-712	F-15E AEROSPACE SUPPORT EQUIPMENT SHOP	3,000 SF	330
442-758	F-15E DISPERSED STORAGE	6,000 SF	1,500
		TOTAL:	3,500

9b. Future Projects: Typical Planned Next Three Years:

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION CLASSIFIED LOCATION	4. PROJECT TITLE F-15E CONVENTIONAL MUNITIONS MAINTENANCE FACILITY

5. PROGRAM ELEMENT 2.71.34	6. CATEGORY CODE 216-642	7. PROJECT NUMBER TYFR903900	8. PROJECT COST($000) 2,400

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
F-15E CONVENTIONAL MUNITIONS MAINTENANCE FACILITY	LS			2,055
SUPPORTING FACILITIES				90
UTILITIES	LS			(90)
SUBTOTAL				2,145
CONTINGENCY (5%)				107
TOTAL CONTRACT COST				2,252
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				146
TOTAL REQUEST				2,398
TOTAL REQUEST (ROUNDED)				2,400

10. Description of Proposed Construction: Reinforced concrete foundation, floor slab, masonry walls and roof system. Functional areas include maintenance bays, parts and equipment storage and restrooms. Includes fire protection, blast protection, static-free floor and all necessary support.

11. REQUIREMENT: As required.

PROJECT: Construct a 6,000 SF conventional munitions maintenance facility. (New Mission)

REQUIREMENT: An adequate facility is required to perform maintenance assembly and testing on live munitions components in direct support of the F-15E flying mission.

CURRENT SITUATION: There is not an adequate facility for maintaining conventional munitions in support of the aircraft mission change.

IMPACT IF NOT PROVIDED: Without this facility, the conventional munitions maintenance capability will be degraded. The base will not be able to properly support future aircraft mission changes.

ADDITIONAL: This project is not eligible for NATO funding. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION

CLASSIFIED LOCATION

4. PROJECT TITLE F-15E CONVENTIONAL MUNITIONS MAINTENANCE FACILITY	5. PROJECT NUMBER TYFR903900

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 SEP 15
(b) Percent Complete as of Jan 90	60%
(c) Date 35% Designed	89 JUN 30
(d) Date Design Complete	90 JUL 15
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	
(b) All Other Design Costs	50
(c) Total	50
(d) Contract	50
(e) In-house	
(4) Construction Start	91 APR

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION CLASSIFIED LOCATION	4. PROJECT TITLE F-15E FIELD TRAINING FACILITY

5. PROGRAM ELEMENT 2.71.34	6. CATEGORY CODE 171-618	7. PROJECT NUMBER TYFR903905	8. PROJECT COST($000) 2,400

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
F-15E FIELD TRAINING FACILITY	SF	14,700	140	2,058
SUPPORTING FACILITIES				105
UTILITIES	LS			(105)
SUBTOTAL				2,163
CONTINGENCY (5%)				108
TOTAL CONTRACT COST				2,271
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				148
TOTAL REQUEST				2,419
TOTAL REQUEST (ROUNDED)				2,400

10. Description of Proposed Construction: Reinforced concrete foundation, floor slab, masonry walls and roof system. Functional areas include classrooms, conference room, technical library and support space. Includes fire protection and all other necessary support.

11. REQUIREMENT: 14,700 SF ADEQUATE: 0 SUBSTANDARD: 0

PROJECT: Construct an F-15E field training detachment facility. (New Mission)

REQUIREMENT: An adequate training facility to house the field training detachment and provide classroom and training aids space for upgrade and familiarization training of maintenance crews in support of the F-15E aircraft.

CURRENT SITUATION: The existing facility is too small to accommodate the additional training requirements needed to support the F-15E aircraft.

IMPACT IF NOT PROVIDED: Lack of adequate classrooms and equipment training space will degrade maintenance training and qualification of maintenance crews. The base will not be able to properly support future aircraft mission changes.

ADDITIONAL: This project is not eligible for NATO funding. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION CLASSIFIED LOCATION		
4. PROJECT TITLE F-15E FIELD TRAINING FACILITY		5. PROJECT NUMBER TYFR903905

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 JUL 20
(b) Percent Complete as of Jan 90	45%
(c) Date 35% Designed	89 JUN 15
(d) Date Design Complete	90 JUL 31
(2) Basis:	
(a) Standard or Definitive Design	NO
(b) Where Design Was Most Recently Used	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	
(b) All Other Design Costs	88
(c) Total	88
(d) Contract	88
(e) In-house	
(4) Construction Start	91 APR

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION CLASSIFIED LOCATION	4. COMMAND	5. AREA CONST COST INDEX 0.00

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 89										
b. End FY 1994										

7. INVENTORY DATA ($000)

a. Total Acreage: (0)	
b. Inventory Total As Of: (30 SEP 89)	0
c. Authorization Not Yet In Inventory:	0
d. Authorization Requested In This Program:	3,000
e. Authorization Included In Following Program: (FY 92)	0
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	0
h. Grand Total:	3,000

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
141-000	TACTICAL INTELLIGENCE CENTER	LS	3,000	JUN 89	SEP 90
		TOTAL:	3,000		

9a. Future Projects: Included in the Following Program (FY 92) NONE

9b. Future Projects: Typical Planned Next Three Years:

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION CLASSIFIED LOCATION	4. PROJECT TITLE TACTICAL INTELLIGENCE CENTER

5. PROGRAM ELEMENT 2.74.31 TIARA	6. CATEGORY CODE 141-000	7. PROJECT NUMBER TYFR896000	8. PROJECT COST($000) 3,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
TACTICAL INTELLIGENCE CENTER	LS			2,561
SUBTOTAL				2,561
CONTINGENCY (10%)				256
TOTAL CONTRACT COST				2,817
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				183
TOTAL REQUEST				3,000
TOTAL REQUEST (ROUNDED)				3,000

10. Description of Proposed Construction: Reinforced concrete walls and ceiling to convert facility to meet Sensitive Compartmented Information Facility (SCIF). Includes security alterations to exterior doors and windows, filters for electrical power and telephone lines, conduit for all interior power and telephone lines and raised flooring for computer room and all other necessary support.

11. REQUIREMENT: As required.
PROJECT: Alter facility for Tactical Intelligence Center. (New Mission)
REQUIREMENT: See classified 1391
CURRENT SITUATION: See classified 1391
IMPACT IF NOT PROVIDED: See classified 1391
ADDITIONAL: This project is not eligible for NATO funding. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

DD FORM 1391, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION

CLASSIFIED LOCATION

4. PROJECT TITLE TACTICAL INTELLIGENCE CENTER	5. PROJECT NUMBER TYFR896000

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 JUN 15
(b) Percent Complete as of Jan 90	35%
(c) Date 35% Designed	89 SEP 30
(d) Date Design Complete	90 SEP 30
(2) Basis:	
(a) Standard or Definitive Design -	
(b) Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	180
(b) All Other Design Costs	30
(c) Total	210
(d) Contract	180
(e) In-house	30
(4) Construction Start	91 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2 DATE
3. INSTALLATION AND LOCATION CLASSIFIED LOCATION	4. COMMAND	5. AREA CONST COST INDEX 0.00

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 89										
b. End FY 1995										

7. INVENTORY DATA ($000)

a. Total Acreage: (0)	
b. Inventory Total As Of: (30 SEP 89)	0
c. Authorization Not Yet In Inventory:	0
d. Authorization Requested In This Program:	14,243
e. Authorization Included In Following Program: (FY 92)	37,347
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	0
h. Grand Total:	51,590

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
141-745	OPERATIONS FACILITY	LS	14,243	SEP 87	OCT 89
		TOTAL:	14,243		

9a. Future Projects: Included in the Following Program (FY 92)

100-000	OPERATIONS FACILITY	LS	37,347
		TOTAL:	37,347

9b. Future Projects: Typical Planned Next Three Years:

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION CLASSIFIED LOCATION	4. PROJECT TITLE OPERATIONS FACILITY

5. PROGRAM ELEMENT 3.13.29 NFIP	6. CATEGORY CODE 141-745	7. PROJECT NUMBER PAYZ900011	8. PROJECT COST($000) 14,243

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
OPERATIONS FACILITY	LS			14,243
SUBTOTAL				14,243
TOTAL CONTRACT COST				14,243
TOTAL REQUEST				14,243
TOTAL REQUEST (ROUNDED)				14,243

10. Description of Proposed Construction: Reinforced concrete foundation, floor slabs, masonry walls and roof system. Includes intelligence, operational, support and computer areas and photographic processing lab. Includes fire protection, TEMPEST shielding and all necessary support.

11. REQUIREMENT: As required.
PROJECT: Construct an operations facility. (New Mission)
REQUIREMENT: See classified 1391
CURRENT SITUATION: See classified 1391
IMPACT IF NOT PROVIDED: See classified 1391
ADDITIONAL: This project is not eligible for NATO funding. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

DD FORM 1391, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION CLASSIFIED LOCATION		
4. PROJECT TITLE OPERATIONS FACILITY		5. PROJECT NUMBER PAYZ900011

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	87 SEP 10
(b) Percent Complete as of Jan 90	100%
(c) Date 35% Designed	88 SEP 30
(d) Date Design Complete	89 OCT 31
(2) Basis:	
(a) Standard or Definitive Design -	
(b) Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	750
(b) All Other Design Costs	
(c) Total	750
(d) Contract	750
(e) In-house	
(4) Construction Start	91 APR

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION CLASSIFIED LOCATION	4. COMMAND	5. AREA CONST COST INDEX 0.00

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	TOTAL
a. As of 30 SEP 89										
b. End FY 1995										

7. INVENTORY DATA ($000)

a. Total Acreage: (0)	
b. Inventory Total As Of: (30 SEP 89)	0
c. Authorization Not Yet In Inventory:	0
d. Authorization Requested In This Program:	3,800
e. Authorization Included In Following Program: (FY 92)	0
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	0
h. Grand Total:	3,800

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
100-000	VARIOUS FACILITIES	LS	3,800	SEP 88	SEP 89
		TOTAL:	3,800		

9a. Future Projects: Included in the Following Program (FY 92) NONE

9b. Future Projects: Typical Planned Next Three Years:

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION CLASSIFIED LOCATION	4. PROJECT TITLE VARIOUS FACILITIES

5. PROGRAM ELEMENT 2.80.42	6. CATEGORY CODE 100-000	7. PROJECT NUMBER PAYZ903072A	8. PROJECT COST($000) 3,800

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
VARIOUS FACILITIES	LS			3,398
SUBTOTAL				3,398
CONTINGENCY (5%)				170
TOTAL CONTRACT COST				3,568
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				232
TOTAL REQUEST				3,800
TOTAL REQUEST (ROUNDED)				3,800

10. Description of Proposed Construction: See classified DD Form 1391

11. REQUIREMENT: As required.

REQUIREMENT: See classified DD Form 1391

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION CLASSIFIED LOCATION		
4. PROJECT TITLE VARIOUS FACILITIES		5. PROJECT NUMBER PAYZ903072A

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 SEP 01
(b) Percent Complete as of Jan 90	100%
(c) Date 35% Designed	88 DEC 31
(d) Date Design Complete	89 SEP 30
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	282
(b) All Other Design Costs	28
(c) Total	310
(d) Contract	200
(e) In-house	110
(4) Construction Start	90 NOV

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION CLASSIFIED LOCATION	4. COMMAND	5. AREA CONST COST INDEX 0.00

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 89										
b. End FY 1995										

7. INVENTORY DATA ($000)

a. Total Acreage: (0)	
b. Inventory Total As Of: (30 SEP 89)	0
c. Authorization Not Yet In Inventory:	0
d. Authorization Requested In This Program:	4,000
e. Authorization Included In Following Program: (FY 92)	0
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	0
h. Grand Total:	4,000

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
100-000	VARIOUS FACILITIES	LS	4,000	FEB 89	JUN 90
		TOTAL:	4,000		

9a. Future Projects: Included in the Following Program (FY 92) NONE

9b. Future Projects: Typical Planned Next Three Years:

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION CLASSIFIED LOCATION	4. PROJECT TITLE VARIOUS FACILITIES

5. PROGRAM ELEMENT 2.80.42	6. CATEGORY CODE 100-000	7. PROJECT NUMBER PAYZ914000A	8. PROJECT COST($000) 4,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
VARIOUS FACILITIES	LS			3,577
SUBTOTAL				3,577
CONTINGENCY (5%)				179
TOTAL CONTRACT COST				3,756
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				244
TOTAL REQUEST				4,000
TOTAL REQUEST (ROUNDED)				4,000

10. Description of Proposed Construction: See classified DD Form 1391

11. REQUIREMENT: As required.
PROJECT: See classified DD Form 1391

DD FORM 1391, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION CLASSIFIED LOCATION		
4. PROJECT TITLE VARIOUS FACILITIES		5. PROJECT NUMBER PAYZ914000A

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 FEB 15
(b) Percent Complete as of Jan 90	60%
(c) Date 35% Designed	89 JUL 31
(d) Date Design Complete	90 JUN 30
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	240
(b) All Other Design Costs	24
(c) Total	264
(d) Contract	180
(e) In-house	84
(4) Construction Start	91 MAY

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1 COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION CLASSIFIED LOCATION	4. COMMAND	5. AREA CONST COST INDEX 0.00

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 89										
b. End FY 1995										

7. INVENTORY DATA ($000)

a. Total Acreage: (0)	0
b. Inventory Total As Of: (30 SEP 89)	0
c. Authorization Not Yet In Inventory:	4,000
d. Authorization Requested In This Program:	0
e. Authorization Included In Following Program: (FY 92)	0
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	0
h. Grand Total:	4,000

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
100-000	VARIOUS FACILITIES	LS	4,000	FEB 89	JUN 90
		TOTAL:	4,000		

9a. Future Projects: Included in the Following Program (FY 92) NONE

9b. Future Projects: Typical Planned Next Three Years:

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION CLASSIFIED LOCATION	4. PROJECT TITLE VARIOUS FACILITIES

5. PROGRAM ELEMENT 2.80.42	6. CATEGORY CODE 100-000	7. PROJECT NUMBER PAYZ914000B	8. PROJECT COST($000) 4,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
VARIOUS FACILITIES	LS			3,577
SUBTOTAL				3,577
CONTINGENCY (5%)				179
TOTAL CONTRACT COST				3,756
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				244
TOTAL REQUEST				4,000
TOTAL REQUEST (ROUNDED)				4,000

10. Description of Proposed Construction: See classified DD Form 1391

11. REQUIREMENT: As required.
PROJECT: See classified DD Form 1391

DD FORM 1391, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION CLASSIFIED LOCATION		
4. PROJECT TITLE VARIOUS FACILITIES		5. PROJECT NUMBER PAYZ914000B

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 FEB 15
(b) Percent Complete as of Jan 90	60%
(c) Date 35% Designed	89 JUL 31
(d) Date Design Complete	90 JUN 30
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	240
(b) All Other Design Costs	24
(c) Total	264
(d) Contract	180
(e) In-house	84
(4) Construction Start	91 MAY

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION CLASSIFIED LOCATION	4. COMMAND	5. AREA CONST COST INDEX 0.00

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 89										
b. End FY 1995										

7. INVENTORY DATA ($000)

a. Total Acreage: (0)	
b. Inventory Total As Of: (30 SEP 89)	0
c. Authorization Not Yet In Inventory:	0
d. Authorization Requested In This Program:	2,600
e. Authorization Included In Following Program: (FY 92)	14,800
f. Planned In Next Three Program Years:	0
g. Remaining Deficiency:	0
h. Grand Total:	17,400

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
100-000	VARIOUS FACILITIES	LS	2,600	FEB 89	JUN 90
		TOTAL:	2,600		

9a. Future Projects: Included in the Following Program (FY 92)

100-000	VARIOUS FACILITIES	LS	14,800
		TOTAL:	14,800

9b. Future Projects: Typical Planned Next Three Years:

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION CLASSIFIED LOCATION	4. PROJECT TITLE VARIOUS FACILITIES

5. PROGRAM ELEMENT 2.80.42	6. CATEGORY CODE 100-000	7. PROJECT NUMBER PAYZ914000C	8. PROJECT COST($000) 2,600

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
VARIOUS FACILITIES	LS			2,325
SUBTOTAL				2,325
CONTINGENCY (5%)				116
TOTAL CONTRACT COST				2,441
SUPERVISION, INSPECTION AND OVERHEAD (6.5%)				159
TOTAL REQUEST				2,600
TOTAL REQUEST (ROUNDED)				2,600

10. Description of Proposed Construction: See classified DD Form 1391

11. REQUIREMENT: As required.

PROJECT: See classified DD Form 1391

DD FORM 1391, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION CLASSIFIED LOCATION		
4. PROJECT TITLE VARIOUS FACILITIES		5. PROJECT NUMBER PAYZ914000C

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 FEB 15
(b) Percent Complete as of Jan 90	60%
(c) Date 35% Designed	89 JUL 31
(d) Date Design Complete	90 JUN 30
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	148
(b) All Other Design Costs	15
(c) Total	163
(d) Contract	110
(e) In-house	53
(4) Construction Start	91 MAY

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROGRAM (computer generated)	2. DATE
3. INSTALLATION AND LOCATION VARIOUS LOCATIONS	4. COMMAND	5. AREA CONST COST INDEX 0.00

6. PERSONNEL STRENGTH	PERMANENT			STUDENTS			SUPPORTED			TOTAL
	OFF	ENL	CIV	OFF	ENL	CIV	OFF	ENL	CIV	
a. As of 30 SEP 89										
b. End FY 1996										

7. INVENTORY DATA ($000)

a. Total Acreage: (0)	
b. Inventory Total As Of: (30 SEP 89)	0
c. Authorization Not Yet In Inventory:	0
d. Authorization Requested In This Program:	118,013
e. Authorization Included In Following Program: (FY 92)	133,387
f. Planned In Next Three Program Years:	319,346
g. Remaining Deficiency:	0
h. Grand Total:	570,746

8. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
010-211	MINOR CONSTRUCTION	LS	10,272		
010-211	PLANNING AND DESIGN	LS	107,741		
		TOTAL:	118,013		

9a. Future Projects: Included in the Following Program (FY 92)

010-211	MINOR CONSTRUCTION	LS	16,490
010-211	PLANNING & DESIGN	LS	116,897
		TOTAL:	133,387

9b. Future Projects: Typical Planned Next Three Years:

010-211	PLANNING & DESIGN	LS	107,713
010-211	PLANNING & DESIGN	LS	104,865
100-000	PLANNING & DESIGN	LS	106,768

11. Outstanding pollution and safety (OSH) deficiencies:

a. Air pollution:	0
b. Water pollution:	0
c. Occupational safety and health:	0

DD FORM 1390, 1 DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION VARIOUS LOCATIONS	4. PROJECT TITLE PLANNING AND DESIGN

5. PROGRAM ELEMENT 9.12.11	6. CATEGORY CODE 010-211	7. PROJECT NUMBER PAYZ903001	8. PROJECT COST($000) 107,741

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PLANNING AND DESIGN	LS			107,741
SUBTOTAL				107,741
TOTAL CONTRACT COST				107,741
TOTAL REQUEST				107,741

10. Description of Proposed Construction: The funds requested will be used to provide financing for architectural and engineering services and construction design for Air Force Military Construction Programs.

11. REQUIREMENT: As required.

REQUIREMENT: These planning and design funds are required to complete the design of facilities in the FY 92 Military Construction Program, initiate design of facilities in the FY 93 Military Construction Program and accomplish planning and design for major and complex technical projects with a long lead-time to be included in subsequent Military Construction Programs. Also provides funds for value engineering and for the support of construction management activities of projects that are funded by foreign governments and for design for classified and special programs.

DD FORM 1391, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1951 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION VARIOUS LOCATIONS	4. PROJECT TITLE MINOR CONSTRUCTION

5. PROGRAM ELEMENT 9.12.11	6. CATEGORY CODE 010-211	7. PROJECT NUMBER PAYZ903000	8. PROJECT COST($000) 10,272

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
UNSPECIFIED MINOR CONSTRUCTION	LS			10,272
SUBTOTAL				10,272
TOTAL CONTRACT COST				10,272
TOTAL REQUEST				10,272

10. Description of Proposed Construction: Provide a lump sum amount for unspecified construction projects not otherwise authorized by law, having a funded cost of $1,000,000 or less, including construction, alteration or conversion of permanent or temporary facilities, in accordance with 10 USC 2805.

11. REQUIREMENT: As required.

REQUIREMENT: This package provides the means of accomplishing urgent projects that are not identified but which are anticipated to arise during FY 91. Included would be projects to support new mission requirements, support of new equipment and concepts and other essential support to Air Force missions and functions that could not wait until availability of FY 92 Military Construction Program funds. 10 USC 2805 provides authority to the Secretaries of the military departments to accomplish projects of this nature.

1 COMPONENT AIR FORCE	FY 1981 MILITARY CONSTRUCTION PROJECT DATA	2 DATE

3 INSTALLATION AND LOCATION VARIOUS LOCATIONS	4 PROJECT TITLE ACCESS ROADS

5 PROGRAM ELEMENT 1.11.27	6 CATEGORY CODE 851-147	7 PROJECT NUMBER	8 PROJECT COST ($000) 9,000

9 COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ACCESS ROADS	LS			9,000

10 DESCRIPTION OF PROPOSED CONSTRUCTION Finance construction of: (1) new off-station entrances for Air Force activities or new connections between Air Force activities; (2) urgently needed improvements of existing highways serving activities; (3) the Federal Government's share of cost of relocating highways severed by expansion or construction of new Air Force facilities; (4) alterations to roads near Air Force activities to accommodate special military vehicles; and (5) contractor damage to roads servicing missile bases. Funds provided will be transferred to the Federal Highway Administration of the Department of Transportation which is responsible for assuring proper execution of the work under Title 23 U.S. Code 210.

11. REQUIREMENT: As Required.

These funds are required to provide access roads under authorization contained in Title 23 U.S. Code 210, as amended. Access road items are required for construction, improvements, replacement or relocation of public highways necessitated by construction of new or expansion of existing Air Force activities which result in a sudden and significant impact on the adjacent highway system. Such items are also vital for relocation of highways to satisfy airway-highway or explosive-clearance criteria. Highways located within the boundaries of a military reservation are not eligible for financing from these funds. Projects in the regular Federal Aid Primary Systems are not normally considered eligible for financing with these funds (exceptions may occur for bases such as special vehicles, weapons safety, or other extraordinary impact generated by Air Force requirements).

1 COMPONENT	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2 DATE
3 INSTALLATION AND LOCATION VARIOUS LOCATIONS		
4. PROJECT TITLE ACCESS ROADS		5. PROJECT NUMBER

WHITEMAN AFB, MO SCOPE: LS COST: $9,000
YWHG929250

Construct defense access roads to support the B-2 bomber beddown (New Mission). Provide off-base roads of sufficient strength and capacity to accommodate traffic to and from the base. This is the first phase of a multi-phase effort. Existing public access roads are inadequate for the increased motor vehicle traffic resulting from the B-2 beddown. Military Traffic Management Command has determined that the upgrades, widening, and reconstruction of an interchange are eligible for Federal funding. Roads leading to and from the base will be inadequate to handle the increased traffic. Without the improvements, a substantial safety hazard will exist for the public and military personnel traveling these roads. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION VARIOUS	4. PROJECT TITLE PROJECTS $1 MILLION AND UNDER

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)

10. Description of Porposed Construction:

Following are individual justification paragraphs for all projects $1 million and under.

VARIOUS LOCATIONS - WITHIN THE UNITED STATES
VARIOUS LOCATIONS - OUTSIDE THE UNITED STATES

DD FORM 1391, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION VARIOUS LOCATIONS		
4. PROJECT TITLE PROJECTS $1 MILLION AND UNDER		5. PROJECT NUMBER

STATE AND LOCATION	PROJECT TITLE	COST ($000)
WILLIAMS AFB, AZ YZJU913000 (ATC) 171-212	ADD TO AND ALTER FLIGHT SIMULATOR	400

Add to and alter a flight simulator facility. (New Mission) Modifications to the existing Terrain Model Board (TMB) room in the flight simulator facility are required to accommodate additional contractor space for instruction in the simulator. This instruction will require individual student briefing and debriefing. Modifying the TMB rooms provides optimum use of space since they are located next to the simulators and are ideal locations for the contractor and briefing space. The TMB rooms previously housed four large terrain boards that were used to add realistic visual pictures in the simulator. Computer imagery eliminated the need for the large terrain boards. Failure to accomplish this project will impact overall mission capabilities. Adequate facilities will not be available to perform the required briefings prior to and after each simulator mission. Currently there is no space available to house the contractor, and since the contractor will be tasked to work 16 hours a day, the contractor must have adequate space near the simulators. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION WILLIAMS AIR FORCE BASE, ARIZONA		
4. PROJECT TITLE ADD TO AND ALTER FLIGHT SIMULATOR		5. PROJECT NUMBER YZJU913000

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 MAY 09
(b) Percent Complete as of Jan 90	75%
(c) Date 35% Designed	89 AUG 13
(d) Date Design Complete	90 MAR 24
(2) Basis:	
(a) Standard or Definitive Design -	YES
(b) Where Design Was Most Recently Used -	REESE
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	20
(b) All Other Design Costs	9
(c) Total	29
(d) Contract	19
(e) In-house	10
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION VARIOUS LOCATIONS		
4. PROJECT TITLE PROJECTS $1 MILLION AND UNDER		5. PROJECT NUMBER

STATE AND LOCATION	PROJECT TITLE	COST ($000)
WILLIAMS AFB, AZ YZJU930566 (ATC) 211-000	SPECIALIZED UPT MAINTENANCE AND OPERATIONS SUPPORT	900

Construct additional CASS stations and modify the existing squadron operations facilities. Install additional tie-downs and grounding points. (New Mission) New support facilities are required to accommodate additional training aircraft obtained from Tanker-Transport-Trainer (TTTS) bases. Williams is currently an Undergraduate Pilot Training (UPT) base with both T-37 and T-38 aircraft. Air Training Command implementation of the TTTS program will divide UPT into specialized training with fighter/bomber training at Williams. The new TTTS aircraft will not be deployed at Williams. Instead, additional T-37 and T-38 aircraft will be relocated there to train fighter/bomber pilot candidates. This project is required to provide facility support for the 42 additional aircraft scheduled for Williams. Failure to accomplish this project will impact overall mission capabilities. Adequate facilities will not be available to perform the required maintenance on the 42 additional aircraft. This could result in mission failure and possible loss of property and/or life. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION WILLIAMS AIR FORCE BASE, ARIZONA		
4. PROJECT TITLE SPECIALIZED UPT MAINTENANCE AND OPERATIONS SUPPORT		5. PROJECT NUMBER YZJU930566

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 MAR 01
(b) Percent Complete as of Jan 90	35%
(c) Date 35% Designed	89 SEP 15
(d) Date Design Complete	90 AUG 01
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	50
(b) All Other Design Costs	20
(c) Total	70
(d) Contract	60
(e) In-house	10
(4) Construction Start	91 JAN

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION VARIOUS LOCATIONS		
4. PROJECT TITLE PROJECTS $1 MILLION AND UNDER		5. PROJECT NUMBER

STATE AND LOCATION	PROJECT TITLE	COST ($000)
FALCON AFS, CO GLEN919001 (CSV) 131-132 NFIP	MILSTAR COMMUNICATIONS GROUND TERMINAL	710

Construct a 696 SF high energy, electromagnetic pulse-shielded addition to a facility to house the MILSTAR Communications Ground Terminal. (New Mission) The MILSTAR system provides the National Command Authority (NCA) with worldwide, two-way, anti-jam, survivable, and enduring data and voice communications throughout trans-and-post attack phases of a nuclear war. No other communications system, existing or planned, provides the level of wartime survivability obtainable through the MILSTAR system. Without this project, critical connectivity between NORAD/Space Command, National Command Authority, and other high priority users will be nonexistent, jeopardizing the ability to provide the essential command and control of strategic and tactical forces throughout all levels of conflict. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION

FALCON AIR FORCE STATION, COLORADO

4. PROJECT TITLE MILSTAR COMMUNICATIONS GROUND TERMINAL	5. PROJECT NUMBER GLEN919001

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 DEC 01
(b) Percent Complete as of Jan 90	100%
(c) Date 35% Designed	89 MAR 01
(d) Date Design Complete	89 SEP 01
(2) Basis:	
(a) Standard or Definitive Design -	
(b) Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	150
(b) All Other Design Costs	
(c) Total	150
(d) Contract	120
(e) In-house	30
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations:

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
EHF COMMUNICATIONS SYSTEM (VERSION II)	3080	1991	3500

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION

VARIOUS LOCATIONS

4. PROJECT TITLE PROJECTS $1 MILLION AND UNDER	5. PROJECT NUMBER

STATE AND LOCATION	PROJECT TITLE	COST ($000)
307		
AVON PARK RNGE, FL ASPR883709 (TAC) 721-312	DORMITORY	700

Construct a 32 person dormitory. (Current Mission) A major Air Force objective provides unaccompanied enlisted personnel with housing conducive to their proper rest, relaxation and personal well-being. Properly designed and furnished quarters providing some degree of individual privacy are essential to the successful accomplishment of the increasingly complicated and important jobs these people must perform. Currently, unaccompanied enlisted personnel assigned at Avon Park Range occupy quarters which are inadequate. The facility is a pre-engineered metal building which was constructed in 1973 to outdated standards. Interior finishes/fixtures have never been upgraded and are unserviceable. Gang latrines, poor insulation, inadequate lighting, lack of privacy and insufficient space to properly house assigned personnel are typical of the deficiencies of this facility. Avon Park Range is located in an isolated area which lacks off-base housing. The nearest installation (MacDill AFB) is over 90 miles away. Without a new dormitory adequate living quarters will continue to be unavailable resulting in the degradation of morale, productivity and career satisfaction for unaccompanied enlisted personnel. This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION AVON PARK RANGE, FLORIDA		
4. PROJECT TITLE DORMITORY		5. PROJECT NUMBER ASPR883709

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	86 MAY 22
(b) Percent Complete as of Jan 90	100%
(c) Date 35% Designed	86 SEP 08
(d) Date Design Complete	87 JUN 15
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	130
(b) All Other Design Costs	1
(c) Total	131
(d) Contract	57
(e) In-house	74
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION VARIOUS LOCATIONS		
4. PROJECT TITLE PROJECTS $1 MILLION AND UNDER		5. PROJECT NUMBER

STATE AND LOCATION	PROJECT TITLE	COST ($000)
HICKAM AFB, HI KNMD903002 (PAF) 121-111	POL OPERATIONS FACILITY	1000

Construct a petroleum operations facility. (Current Mission) A centralized facility for administering management functions of petroleum operations which includes a control center for the coordination of all base fuels activities and a laboratory for fuel quality control as well as parking for fuel vehicles near their point of dispatch and near flightline access. The administrative and miscellaneous functions of the Fuels Management Branch are housed in two substandard and undersized facilities. However, one of the buildings consists of four old trailers which are deteriorating at a rapid rate. The other building is a metal warehouse building without windows converted to administrative offices. The cost to alter/upgrade is prohibitive. The refueling vehicle check point is located in the open, and the operator maintenance room is in a temporary outdoor equipment metal shed. This dispersed configuration is not conducive to the effective operation of this function. They do not have adequate ventilation and electrical service and lack proper explosive proof fixtures. Upon completion of this new facility, the two existing substandard buildings will be disposed of. The Base Fuels Management Branch will continue to be housed in inadequate facilities and their effectiveness will continue to be adversely affected.

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION HICKAM AIR FORCE BASE, HAWAII		
4. PROJECT TITLE POL OPERATIONS FACILITY		5. PROJECT NUMBER KNMD903002

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 MAY 26
(b) Percent Complete as of Jan 90	100%
(c) Date 35% Designed	88 SEP 10
(d) Date Design Complete	89 DEC 01
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	75
(b) All Other Design Costs	25
(c) Total	100
(d) Contract	
(e) In-house	100
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION

VARIOUS LOCATIONS

4. PROJECT TITLE PROJECTS $1 MILLION AND UNDER	5. PROJECT NUMBER

STATE AND LOCATION	PROJECT TITLE	COST ($000)
HICKAM AFB, HI KNMD913313 (PAF) 740-884	ADD TO CHILD DEVELOPMENT CENTER	770

Construction addition to Child Care Center. (Current Mission) An adequately sized and configured child care center is required to provide supervised care and developmental experience for dependent children aged six weeks through twelve years. Such a facility is needed to provide child care services to families with both parents working or those where there is only one parent caring for the child. The child care center must provide a comfortable, clean, educational environment where servicemen and women can leave their children on an hourly, daily or drop-in basis without worrying about the level or nature of care. The child care center function is now occupying four undersized buildings in two locations separated over one and a half mile from each other. Three of these are substandard buildings not configured for effective use as child care facilities. This situation not only detracts from the base's ability to provide quality child care service, it results in inefficient and costly child care operations. This project will permit the consolidation of this function in one location for improved and more effective operation. The base will continue to be unable to provide quality child care service to assigned personnel and their dependents. This situation will have an adverse impact on such factors as morale and retention. This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION HICKAM AIR FORCE BASE, HAWAII		
4. PROJECT TITLE ADD TO CHILD DEVELOPMENT CENTER		5. PROJECT NUMBER KNMD913313

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 DEC 18
(b) Percent Complete as of Jan 90	60%
(c) Date 35% Designed	89 AUG 01
(d) Date Design Complete	90 OCT 05
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	45
(b) All Other Design Costs	85
(c) Total	130
(d) Contract	130
(e) In-house	
(4) Construction Start	91 FEB

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION VARIOUS LOCATIONS		
4. PROJECT TITLE PROJECTS $1 MILLION AND UNDER		5. PROJECT NUMBER

STATE AND LOCATION	PROJECT TITLE	COST ($000)
BARKSDALE AFB, LA PAYZ913352 (SYS) 217-722	PEACEKEEPER-ADD TO AND ALTER COMMUNICATIONS FACILITY	730

Add to and alter communications maintenance facility. (New Mission) An adequate facility is needed to support the maintenance and repair of rail garrison communications equipment. The facility shall provide for a missile radio work center, antenna work center, Air Force satellite communications work center, Base Installation Security System work center and associated material control, storage and support areas. There are no existing facilities at this location that satisfy or can accommodate the unique rail garrison communications maintenance requirements. Without the facility, the garrison security system would be compromised due to the lack of an adequate maintenance area to repair and maintain weapon system communications components and spares. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION BARKSDALE AIR FORCE BASE, LOUISIANA		
4. PROJECT TITLE PEACEKEEPER-ADD TO AND ALTER COMMUNICATIONS FACILITY		5. PROJECT NUMBER PAYZ913352

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 JUN 15
(b) Percent Complete as of Jan 90	50%
(c) Date 35% Designed	89 SEP 10
(d) Date Design Complete	90 JUN 15
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	45
(b) All Other Design Costs	15
(c) Total	60
(d) Contract	50
(e) In-house	10
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION VARIOUS LOCATIONS		
4. PROJECT TITLE PROJECTS $1 MILLION AND UNDER		5. PROJECT NUMBER

STATE AND LOCATION	PROJECT TITLE	COST ($000)
BARKSDALE AFB, LA SGER902542 (SAC) 422-265 TIARA	MUNITIONS SUPPORT EQUIPMENT STORAGE FACILITY	630

Construct a 6,000 SF munitions support equipment storage facility. (New Mission) A storage facility is required to accommodate the storage of support equipment for a newly developed weapon system. The facility must be designed to permit access for testing and inspection and must be located on the flightline. The base does not have a facility on the flightline where this equipment can be stored and be accessible for inspection and testing. Also, this base will not be able to store the equipment necessary to accommodate the new weapon system. This will have an adverse affect on the implementation and support of the weapon system when delivered to the base. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION BARKSDALE AIR FORCE BASE, LOUISIANA		
4. PROJECT TITLE MUNITIONS SUPPORT EQUIPMENT STORAGE FACILITY		5. PROJECT NUMBER SGER902542

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 MAY 13
(b) Percent Complete as of Jan 90	60%
(c) Date 35% Designed	88 OCT 15
(d) Date Design Complete	90 APR 22
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	38
(b) All Other Design Costs	7
(c) Total	45
(d) Contract	36
(e) In-house	9
(4) Construction Start	91 MAR

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION VARIOUS LOCATIONS		
4. PROJECT TITLE PROJECTS $1 MILLION AND UNDER		5. PROJECT NUMBER

STATE AND LOCATION	PROJECT TITLE	COST ($000)
BANGOR ANGB, ME FKNN913001 (TAC) 610-243	SQUADRON SUPPORT FACILITY	970

Construct a consolidated squadron support facility. (Current Mission) An adequate facility is required to administer and manage personnel assigned to the Over-the-Horizon Backscatter (OTH-B) Radar Squadron, the OTH-B Canadian liaison, the Communications Squadron, base engineer, base services offices, base post office and the education center. OTH-B Radar Squadron offices and the post office are currently housed in a 40 year-old World War II wooden facility with asbestos siding. This facility has deteriorated beyond economical repair. It has no fire protection and has high utility and maintenance costs. This facility also lacks adequate heating and cooling systems. This facility will be demolished upon completion of this project. The remaining support functions are located off base. Without this facility, personnel will continue to work ineffectively due to their separation from other base functions, customer service will be hampered due to the off-base location and maintenance costs for the World War II facility will continue to escalate. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION

BANGOR AIR NATIONAL GUARD BASE, MAINE

4. PROJECT TITLE SQUADRON SUPPORT FACILITY	5. PROJECT NUMBER FKNN913001

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 NOV 15
(b) Percent Complete as of Jan 90	60%
(c) Date 35% Designed	89 AUG 15
(d) Date Design Complete	90 JUL 17
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	59
(b) All Other Design Costs	
(c) Total	59
(d) Contract	
(e) In-house	59
(4) Construction Start	91 JAN

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION VARIOUS LOCATIONS		
4. PROJECT TITLE PROJECTS $1 MILLION AND UNDER		5. PROJECT NUMBER

STATE AND LOCATION	PROJECT TITLE	COST ($000)
LORING AFB, ME SGER902540 (SAC) 422-265 TIARA	MUNITIONS SUPPORT EQUIPMENT STORAGE FACILITY	830

Construct a 6,000 SF munitions support equipment storage facility. (New Mission) A storage facility is required to accommodate the storage of support equipment for a newly developed weapon system. The facility must be designed to permit access for testing and inspection and must be located on the flightline. The base does not have a facility on the flightline where this equipment can be stored and be accessible for inspection and testing. Also, this base will not be able to store the equipment necessary to accommodate the new weapon system. This will have an adverse affect on the implementation and support of the weapon system when delivered to the base. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION LORING AIR FORCE BASE, MAINE		
4. PROJECT TITLE MUNITIONS SUPPORT EQUIPMENT STORAGE FACILITY		5. PROJECT NUMBER SGER902540

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 MAY 10
(b) Percent Complete as of Jan 90	60%
(c) Date 35% Designed	89 AUG 15
(d) Date Design Complete	90 APR 15
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	39
(b) All Other Design Costs	7
(c) Total	46
(d) Contract	37
(e) In-house	9
(4) Construction Start	91 JAN

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION VARIOUS LOCATIONS		
4. PROJECT TITLE PROJECTS $1 MILLION AND UNDER		5. PROJECT NUMBER

STATE AND LOCATION	PROJECT TITLE	COST ($000)
WURTSMITH AFB, MI ZJXD860033 (SAC) 740-884	ADD TO AND ALTER CHILD DEVELOPMENT CENTER	960

Add to and alter child development center. (Current Mission) An adequate facility is required to provide for the care and development of a wide range of age groups of children of personnel assigned to this base. This care must be provided during regular duty hours and in support of after hour mission requirements. A reliable, well managed, healthy and affordable center for the care of children ages 6 weeks through 10 years is essential. Facility must provide separate areas and program operations for older versus younger children and allow simultaneous care of different ages under proper supervision. The existing child development facility is too small providing about one-half of the needed space. Also, it is poorly arranged for safe and effective child development support. Due to its size, over 50 percent of the parents requesting services are turned away. Locally, there is only one private facility that offers child care. This service is expensive and is located over three miles from the base. This presents a hazardous situation for the parents and children during the winter months in transporting children to and from the off-base facility. In addition, this creates an undue personal and financial hardship on working parents, especially lower ranking enlisted personnel, due to the odd hours that many personnel must work and the expense of the extra travel and the cost of this other care. It forces parents to either quit work, hire an expensive sitter or place the child with unqualified people. Without this project, significant numbers of families and children will be denied child development services on the base. This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION WURTSMITH AIR FORCE BASE, MICHIGAN		
4. PROJECT TITLE ADD TO AND ALTER CHILD DEVELOPMENT CENTER		5. PROJECT NUMBER ZJXD860033

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 JAN 31
(b) Percent Complete as of Jan 90	60%
(c) Date 35% Designed	89 JUL 31
(d) Date Design Complete	90 APR 01
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	54
(b) All Other Design Costs	
(c) Total	54
(d) Contract	38
(e) In-house	16
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION

VARIOUS LOCATIONS

4. PROJECT TITLE PROJECTS $1 MILLION AND UNDER	5. PROJECT NUMBER

STATE AND LOCATION	PROJECT TITLE	COST ($000)
301		
WHITEMAN AFB, MO PAYZ917006 (SAC) 100-000	B-2 IMPACT AID	1000

Provide impact aid in support of the B-2 beddown. (New Mission) Aid to upgrade the off-base infrastructure to support the increase in Whiteman AFB population due to the beddown of the B-2 bomber. With an increase of 2,400 military personnel and the construction of 900 military family housing units, communities adjoining the base require financial assistance for necessary expansion of schools, roads and utilities. The locations for construction of 900 units of military family housing is being finalized. Local communities are assessing impacts on schools, utilities, roads, and other community facilities. The major population areas of Warrenberg, Sedalia, and Knob Noster, must absorb the increases in population associated with B-2 construction and beddown. Communities adjoining the base will experience significant population increases which will overcrowd schools and overtax of utilities and roads. Quality of life and education systems will be degraded.

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION VARIOUS LOCATIONS		
4. PROJECT TITLE PROJECTS $1 MILLION AND UNDER		5. PROJECT NUMBER

STATE AND LOCATION	PROJECT TITLE	COST ($000)
WHITEMAN AFB, MO YWHG870012 (SAC) 880-211	FIRE PROTECTION SYSTEM	750

Install fire suppression systems in two buildings. (Current Mission) Automatic fire suppression systems are needed to supplement the base fire department's ability to minimize damage and destruction to base facilities. A dry pipe suppression system is required for administrative, warehouse and shop areas. A gaseous fire suppression system is required for computer space. A chemical fire suppression system is required in flammable storage areas. The two buildings do not have fire suppression systems. They were initially used as warehouse space with small administrative areas but have now been converted to all administrative and shop space. Replacement value for the buildings and contents exceeds seven million dollars. Without fire suppression systems in both buildings, millions of dollars of real property and equipment will be totally dependent on the ability of the base fire department to locate, contain and extinguish a fire. A major loss of property and equipment in these buildings will affect mission accomplishment. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION

WHITEMAN AIR FORCE BASE, MISSOURI

4. PROJECT TITLE FIRE PROTECTION SYSTEM	5. PROJECT NUMBER YWHG870012

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 DEC 01
(b) Percent Complete as of Jan 90	60%
(c) Date 35% Designed	89 APR 01
(d) Date Design Complete	90 JUL 01
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	38
(b) All Other Design Costs	
(c) Total	38
(d) Contract	27
(e) In-house	11
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION VARIOUS LOCATIONS		
4. PROJECT TITLE PROJECTS $1 MILLION AND UNDER		5. PROJECT NUMBER

STATE AND LOCATION	PROJECT TITLE	COST ($000)
WHITEMAN AFB, MO YWHG909208 (SAC) 442-758	B-2 WEAPONS STORAGE AREA SUPPLY WAREHOUSE	800

Construct a 4,000 SF Weapons Storage Area (WSA) Supply Warehouse for the B-2 beddown. (New Mission) An adequate on-site supply access point for critical munitions and launcher spares is required in the WSA for timely and responsive maintenance and repair of munitions and weapons. A secure room is required for the munitions maintenance management information system. No facility exists to support this requirement in or near the Weapons Storage Area. Existing warehouses are located 20 minutes driving time away and are already utilized to capacity. Without this facility, timely supply of replacement parts and equipment required for munitions launcher maintenance will not be possible. Valuable, sensitive equipment will have to be stored outside, subject to harsh weather, damage and pilferage. Mission readiness will suffer and beddown objectives cannot be met. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION WHITEMAN AIR FORCE BASE, MISSOURI		
4. PROJECT TITLE B-2 WEAPONS STORAGE AREA SUPPLY WAREHOUSE		5. PROJECT NUMBER YWHG909208

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 AUG 29
(b) Percent Complete as of Jan 90	35%
(c) Date 35% Designed	89 DEC 15
(d) Date Design Complete	90 DEC 15
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	49
(b) All Other Design Costs	
(c) Total	49
(d) Contract	49
(e) In-house	
(4) Construction Start	91 MAR

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION VARIOUS LOCATIONS		
4. PROJECT TITLE PROJECTS $1 MILLION AND UNDER		5. PROJECT NUMBER

STATE AND LOCATION	PROJECT TITLE	COST ($000)
WHITEMAN AFB, MO YWHG909210 (SAC) 218-852	B-2 SURVIVAL EQUIPMENT SHOP	1000

Construct a 4,500 SF Survival Equipment Shop to support beddown of the B-2.(New Mission) An adequate survival equipment shop is required for the inspecting, washing, drying and folding parachutes. Space is also required for maintenance of flotation devices and other associated survival equipment. These are new mission functions at the base and no facilities can be added to or altered to accommodate these tasks. Without this project, survival equipment cannot be maintained at Whiteman AFB. This will adversely impact aircraft availability and safety of crew members. Also, the beddown objectives cannot be met. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION WHITEMAN AIR FORCE BASE, MISSOURI		
4. PROJECT TITLE B-2 SURVIVAL EQUIPMENT SHOP		5. PROJECT NUMBER YWHG909210

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 AUG 29
(b) Percent Complete as of Jan 90	35%
(c) Date 35% Designed	89 DEC 15
(d) Date Design Complete	90 DEC 15
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	60
(b) All Other Design Costs	10
(c) Total	70
(d) Contract	
(e) In-house	70
(4) Construction Start	91 MAR

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION VARIOUS LOCATIONS		
4. PROJECT TITLE PROJECTS $1 MILLION AND UNDER		5. PROJECT NUMBER

STATE AND LOCATION	PROJECT TITLE	COST ($000)
WHITEMAN AFB, MO YWHG939260 (SAC) 740-884	B-2 ADD TO AND ALTER CHILD DEVELOPMENT CENTER	750

Add 3,050 SF and alter 9,400 SF in the Child Development Center to support beddown of the B-2 bomber. (New Mission). An adequate facility is required to provide for the care and development of children of personnel assigned to the existing missile wing those arriving for the beddown of the B-2 bomber. This care must be provided during regular duty hours and in support of after hour mission requirements. A reliable, well managed, healthy and affordable center for the care of children ages 6 weeks through 10 years is essential. The facility must provide separate areas and program operations for older and younger children and allow simultaneous care of different ages under proper supervision. The current facility is operating at capacity, serving 128 children. There is a waiting list for 30 children. The B-2 mission is expected to create a need for services for an additional 80 children. Demand for child care services will continue to increase due to a greater number of collocated married couples, single parents and working spouses. The existing facility cannot meet current needs and the projected requirements of the B-2 beddown. In the rural location of Whiteman Air Force Base, off-base centers are extremely limited, have waiting lists, and do not offer extended care or drop-in service. Some families will not be able to find affordable child care services forcing parents to either quit work, hire an expensive sitter or place their children with unqualified people. Without this project, significant numbers of families and children will be denied child development services on base. This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION

WHITEMAN AIR FORCE BASE, MISSOURI

4. PROJECT TITLE B-2 ADD TO AND ALTER CHILD DEVELOPMENT CENTER	5. PROJECT NUMBER YWHG939260

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 JAN 15
(b) Percent Complete as of Jan 90	100%
(c) Date 35% Designed	89 JUL 31
(d) Date Design Complete	89 DEC 15
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	12
(b) All Other Design Costs	7
(c) Total	19
(d) Contract	12
(e) In-house	7
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION VARIOUS LOCATIONS		
4. PROJECT TITLE PROJECTS $1 MILLION AND UNDER		5. PROJECT NUMBER

STATE AND LOCATION	PROJECT TITLE	COST ($000)
COLUMBUS AFB, MS EEPZ913001 (ATC) 171-212	ADD TO AND ALTER FLIGHT SIMULATOR	400

Add to and alter a flight simulator facility. (New Mission) Modifications to the existing Terrain Model Board (TMB) room in the flight simulator facility are required to accommodate additional contractor space for instruction in the simulator. This instruction will require individual student briefing and debriefing. Modifying the TMB rooms provides optimum use of space since they are located next to the simulators and are ideal locations for the contractor and briefing space. The TMB rooms previously housed four large terrain boards that were used to add realistic visual pictures in the simulator. Computer imagery eliminated the need for the large terrain boards. Failure to accomplish this project will impact overall mission capabilities. Adequate facilities will not be available to perform the required briefings prior to and after each simulator mission. Currently there is no space available to house the contractor, and since the contractor will be tasked to work 16 hours a day, the contractor must have adequate space near the simulators. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION COLUMBUS AIR FORCE BASE, MISSISSIPPI		
4. PROJECT TITLE ADD TO AND ALTER FLIGHT SIMULATOR		5. PROJECT NUMBER EEPZ913001

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 MAY 09
(b) Percent Complete as of Jan 90	75%
(c) Date 35% Designed	89 AUG 13
(d) Date Design Complete	90 MAR 24
(2) Basis:	
(a) Standard or Definitive Design -	YES
(b) Where Design Was Most Recently Used -	REESE
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	20
(b) All Other Design Costs	9
(c) Total	29
(d) Contract	19
(e) In-house	10
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION VARIOUS LOCATIONS		
4. PROJECT TITLE PROJECTS $1 MILLION AND UNDER		5. PROJECT NUMBER

STATE AND LOCATION	PROJECT TITLE	COST ($000)
SEYMOUR-JOHNSON AFB, NC VKAG873008 (TAC) 442-768	BASE FORMS AND PUBLICATIONS WAREHOUSE	600

Construct a base forms and publications warehouse (Current Mission). This facility is required to store forms and publications which are needed by the entire base. It is also required to store, maintain and service official documentation necessary to manage Air Force operations. Both of these functions are currently housed in dilapidated wooden structures that have far exceeded their useful life. They are difficult to heat and cool, uneconomical to maintain and a fire risk. Two existing facilities will be demolished upon completion of this project. Failure to construct this facility will perpetuate a fire hazard, waste energy and maintenance resources and decrease the capability to support the mission. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION SEYMOUR JOHNSON AIR FORCE BASE, NORTH CAROLINA		
4. PROJECT TITLE BASE FORMS AND PUBLICATIONS WAREHOUSE		5. PROJECT NUMBER VKAG873008

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	84 DEC 04
(b) Percent Complete as of Jan 90	60%
(c) Date 35% Designed	85 APR 25
(d) Date Design Complete	90 JUL 15
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	81
(b) All Other Design Costs	
(c) Total	81
(d) Contract	39
(e) In-house	42
(4) Construction Start	91 FEB

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION VARIOUS LOCATIONS		
4. PROJECT TITLE PROJECTS $1 MILLION AND UNDER		5. PROJECT NUMBER

STATE AND LOCATION	PROJECT TITLE	COST ($000)
SEYMOUR-JOHNSON AFB, NC VKAG883010 (TAC) 880-232	FIRE PROTECTION SYSTEMS	850

Install fire protection systems in 15 buildings. (Current Mission) Installation of these systems is required to protect Air Force personnel, equipment and facilities. Fire protection systems insure the maximum degree of safety to life and increase the capability of firefighters to protect resources. These buildings are without adequate fire protection systems because they were constructed before current National Fire Protection Association (NFPA) standards were developed. While new facilities are constructed to meet fire protection standards, existing older facilities must be retrofitted with fire protection systems. These inadequately protected facilities are valued over $100 million, including contents. Hand-held fire extinguishers are placed at various locations in all buildings, but these measures alone are not sufficient to combat large or rapidly moving fires. Delay in early suppression of a fire could result in injuries and destruction of valuable Air Force resources. Without this project, potential for fire damage to valuable Air Force property and aircraft and increased potential for loss of life will continue. Loss of facilities and contents could result in serious operational and financial impacts to the Air Force. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION SEYMOUR JOHNSON AIR FORCE BASE, NORTH CAROLINA		
4. PROJECT TITLE FIRE PROTECTION SYSTEMS		5. PROJECT NUMBER VKAG883010

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 FEB 01
(b) Percent Complete as of Jan 90	95%
(c) Date 35% Designed	89 JUN 01
(d) Date Design Complete	90 FEB 01
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	51
(b) All Other Design Costs	
(c) Total	51
(d) Contract	51
(e) In-house	
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION VARIOUS LOCATIONS		
4. PROJECT TITLE PROJECTS $1 MILLION AND UNDER		5. PROJECT NUMBER

STATE AND LOCATION	PROJECT TITLE	COST ($000)
GRAND FORKS AFB, ND PAYZ913502 (SYS) 217-722	PEACEKEEPER-ADD TO AND ALTER COMMUNICATIONS MAINTENANCE FAC	800

Add to and alter communications maintenance facility. (New Mission) An adequate facility is needed to support the maintenance and repair of rail garrison communications equipment. The facility shall provide for a missile radio work center, antenna work center, Air Force satellite communications work center, Base Installation Security System work center and associated material control, storage and support areas. There are no existing facilities at this location that satisfy or can accommodate the unique rail garrison communications maintenance requirements. Without the facility, the garrison security system would be compromised due to the lack of an adequate maintenance area to repair and maintain weapon system communications components and spares. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION GRAND FORKS AIR FORCE BASE, NORTH DAKOTA		
4. PROJECT TITLE PEACEKEEPER-ADD TO AND ALTER COMMUNICATIONS MAINTENANCE FAC		5. PROJECT NUMBER PAYZ913502

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 JUN 15
(b) Percent Complete as of Jan 90	50%
(c) Date 35% Designed	89 SEP 10
(d) Date Design Complete	90 JUN 15
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	45
(b) All Other Design Costs	15
(c) Total	60
(d) Contract	50
(e) In-house	10
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION VARIOUS LOCATIONS		
4. PROJECT TITLE PROJECTS $1 MILLION AND UNDER		5. PROJECT NUMBER

STATE AND LOCATION	PROJECT TITLE	COST ($000)
GRAND FORKS AFB, ND PAYZ913523 (SYS) 911-000	PEACEKEEPER-LAND ACQUISITION	1000

Purchase 591 acres of real estate and one house for the Peacekeeper Rail Garrison System safety zones and rights-of-way for roads, railroad, utilities. (New Mission) Purchase of additional land for the Peacekeeper Rail Garrison System safety zones. Rights-of-way for roads, railroad, power transmission, and communications must also be obtained as well as quantity-distance easements in order to adequately base the weapon system. Existing Air Force real estate holdings are inadequate to support this new mission. Deployment of Peacekeeper in a garrison area for a rail system will not be possible. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

525 acres to be acquired as easements
66 acres to be acquired in fee

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION VARIOUS LOCATIONS		
4. PROJECT TITLE PROJECTS $1 MILLION AND UNDER		5. PROJECT NUMBER

STATE AND LOCATION	PROJECT TITLE	COST ($000)
HOLLOMAN AFB, NM KWRD903018 (TAC) 872-247	SECURITY IMPROVEMENTS	310

Construct security improvements at Holloman Air Force Base. (Current Mission) Protective barriers of adequate length are required to provide aircraft parking areas with sufficient security against terrorist and dissident action and to stop unlawful entry or trespassing. There are no barriers around the wing aircraft parking areas to prevent a high speed vehicle approach. This project will provide barriers to restrict access to these secure areas. The points of entry may then be easily monitored in the event of an emergency. Without this project, aircraft will remain vulnerable to a high speed vehicle approach. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION HOLLOMAN AIR FORCE BASE, NEW MEXICO		
4. PROJECT TITLE SECURITY IMPROVEMENTS		5. PROJECT NUMBER KWRD903018

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 NOV 01
(b) Percent Complete as of Jan 90	60%
(c) Date 35% Designed	89 MAR 01
(d) Date Design Complete	90 MAY 15
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	18
(b) All Other Design Costs	
(c) Total	18
(d) Contract	18
(e) In-house	
(4) Construction Start	90 NOV

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION VARIOUS LOCATIONS		
4. PROJECT TITLE PROJECTS $1 MILLION AND UNDER		5. PROJECT NUMBER

STATE AND LOCATION	PROJECT TITLE	COST ($000)
NELLIS AFB, NV RKMF913001 (TAC) 872-247	BASE SECURITY FENCING	270

Erect an addition to the existing perimeter fence. (Current Mission) An adequate perimeter fence is required to protect Air Force resources from terrorism/vandalism and to stop unlawful entry/trespassing. Unprotected entry points exist at numerous locations along the perimeter of Nellis AFB. As a result, there is no physical barrier to deter intruders, vandals, thieves, activists, publicity seekers or terrorists. On a recurring basis, unauthorized personnel and off-road vehicles have gained entrance without going through manned security police check points. Without additional fencing, Government facilities/resources will remain susceptible to trespass and damage by unauthorized personnel and vehicles. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION NELLIS AIR FORCE BASE, NEVADA		
4. PROJECT TITLE BASE SECURITY FENCING		5. PROJECT NUMBER RKMF913001

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 FEB 01
(b) Percent Complete as of Jan 90	100%
(c) Date 35% Designed	89 JUN 01
(d) Date Design Complete	89 DEC 01
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	16
(b) All Other Design Costs	
(c) Total	16
(d) Contract	16
(e) In-house	
(4) Construction Start	91 JAN

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION VARIOUS LOCATIONS		
4. PROJECT TITLE PROJECTS $1 MILLION AND UNDER		5. PROJECT NUMBER

STATE AND LOCATION	PROJECT TITLE	COST ($000)
NELLIS AFB, NV RKMF913004 (MAC) 141-753	SQUADRON OPERATIONS FACILITY	1000

Construct a 5,800 SF squadron operations facility. (New Mission) Adequate survivable facility to plan, brief, and critique rescue crews and to direct flight operations. Administrative space is required for the commander and his staff to program and conduct mission briefings and other related command activities. Space is also required to care for, store and issue flying clothing, and equipment. The briefing rooms, flight planning/operations, and life support areas are required for operational and training missions 24 hours a day. There is no current operations facility available for the programmed new mission at Nellis AFB. The new mission is programmed to become operational in FY 91. The new squadron will not have a suitable facility in which to operate. Severe limitations, if not total impossibility, will be placed on mission accomplishment. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION NELLIS AIR FORCE BASE, NEVADA		
4. PROJECT TITLE SQUADRON OPERATIONS FACILITY		5. PROJECT NUMBER RKMF913004

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 MAY 09
(b) Percent Complete as of Jan 90	75%
(c) Date 35% Designed	89 AUG 13
(d) Date Design Complete	90 MAR 24
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	27
(b) All Other Design Costs	13
(c) Total	40
(d) Contract	30
(e) In-house	10
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION VARIOUS LOCATIONS		
4. PROJECT TITLE PROJECTS $1 MILLION AND UNDER		5. PROJECT NUMBER

STATE AND LOCATION	PROJECT TITLE	COST ($000)
ALTUS AFB, OK AGGN913020 (MAC) 171-212	ALTER FLIGHT SIMULATOR FACILITY	800

Alter the three bay C-141 flight simulator training facility. (Current Mission) This facility is required to house Phase II C-141 flight simulator training equipment. This is modern state-of-the-art equipment that will enhance initial training, qualification, proficiency maintenance and effective mission procedures training. The existing facility cannot accept the new C-141 simulator without this upgrade. The training of C-141 aircrews cannot be accomplished without providing an adequate flight simulator for the aircrews. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION ALTUS AIR FORCE BASE, OKLAHOMA		
4. PROJECT TITLE ALTER FLIGHT SIMULATOR FACILITY		5. PROJECT NUMBER AGGN913020

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 DEC 30
(b) Percent Complete as of Jan 90	65%
(c) Date 35% Designed	89 MAY 30
(d) Date Design Complete	90 JUL 01
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	60
(b) All Other Design Costs	
(c) Total	60
(d) Contract	48
(e) In-house	12
(4) Construction Start	91 APR

b. Equipment associated with this project will be provided from other appropriations:

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
TRAINING EQUIPMENT	3600	1993	28000

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION VARIOUS LOCATIONS		
4. PROJECT TITLE PROJECTS $1 MILLION AND UNDER		5. PROJECT NUMBER

STATE AND LOCATION	PROJECT TITLE	COST ($000)
TINKER AFB, OK WWYK900038 (CSV) 610-287	SYSTEMS ENGINEERING FACILITY	650

Construct a 4,450 SF systems engineering facility. (Current Mission) A facility to house system engineers and specialized equipment providing initial design to Air Force organizations in identifying requirements for the acquisition of communications systems. Since the division was formed, its members have occupied an old cafeteria and WWII dormitories. These facilities have inadequate lighting and are too small to provide the necessary environment to accomplish the complicated design work to support the needs of the Air Force. Continuity of work is difficult since the unit is located in three different buildings, and products in various stages of completion must be carried between buildings exposing them to the elements. Without this project, the integration of major communications and computer systems will not be effectively accomplished. The separation of functions and lack of required space will continue to impair the mission. This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION TINKER AIR FORCE BASE, OKLAHOMA		
4. PROJECT TITLE SYSTEMS ENGINEERING FACILITY		5. PROJECT NUMBER WWYK900038

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 MAR 01
(b) Percent Complete as of Jan 90	35%
(c) Date 35% Designed	89 MAY 31
(d) Date Design Complete	90 JUN 01
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	36
(b) All Other Design Costs	
(c) Total	36
(d) Contract	29
(e) In-house	7
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION VARIOUS LOCATIONS		
4. PROJECT TITLE PROJECTS $1 MILLION AND UNDER		5. PROJECT NUMBER

STATE AND LOCATION	PROJECT TITLE	COST ($000)
VANCE AFB, OK XTLF913303 (ATC) 171-212	ADD TO AND ALTER FLIGHT SIMULATOR	400

Add to and alter a flight simulator facility. (New Mission) Modifications to the existing Terrain Model Board (TMB) room in the flight simulator facility are required to accommodate additional contractor space for instruction in the simulator. This instruction will require individual student briefing and debriefing. Modifying the TMB rooms provides optimum use of space since they are located next to the simulators and are ideal locations for the contractor and briefing space. The TMB rooms previously housed four large terrain boards that were used to add realistic visual pictures in the simulator. Computer imagery eliminated the need for the large terrain boards. Failure to accomplish this project will impact overall mission capabilities. Adequate facilities will not be available to perform the required briefings prior to and after each simulator mission. Currently there is no space available to house the contractor, and since the contractor will be tasked to work 16 hours a day, the contractor must have adequate space near the simulators. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION VANCE AIR FORCE BASE, OKLAHOMA		
4. PROJECT TITLE ADD TO AND ALTER FLIGHT SIMULATOR		5. PROJECT NUMBER XTLF913303

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 MAY 09
(b) Percent Complete as of Jan 90	75%
(c) Date 35% Designed	89 AUG 13
(d) Date Design Complete	90 MAR 24
(2) Basis:	
(a) Standard or Definitive Design -	YES
(b) Where Design Was Most Recently Used -	REESE
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	20
(b) All Other Design Costs	9
(c) Total	29
(d) Contract	19
(e) In-house	10
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION VARIOUS LOCATIONS		
4. PROJECT TITLE PROJECTS $1 MILLION AND UNDER		5. PROJECT NUMBER

STATE AND LOCATION	PROJECT TITLE	COST ($000)
CHARLESTON AFB, SC DKFX903001 (MAC) 141-232	PARACHUTE DRYING TOWER	500

Construct a 550 SF parachute drying tower. (Current Mission) An adequate multi-parachute drying tower is required for air drop parachutes. Parachutes are dryed in the packing and storage area of the aerial delivery facility. This area does not provide sufficient height to properly hang the parachutes, they must be dried in a horizontal position draped over tables and storage compartments. This method requires at least two days for proper drying. During this time other work which must be performed in this area stops, and backlogs in parachute repair and packing occur. This system also does not allow for the shaking out of debris nor proper inspection of the chutes. Additionally, the humidity from the drying chutes deteriorates the packed chutes which must be stored in the same area. Wet chutes waiting for space to be dryed must be removed from their deployment bags or mildew will occur in as little as 24 hours. Replacement costs for these chutes can be as high as $3,000. Without this project the aerial delivery branch will be forced to continue to use an outmoded, inefficient, and time-consuming method of drying parachutes. Replacement costs for chutes which fail prematurely due to improper drying, cleaning, and/or storage will remain excessive. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION CHARLESTON AIR FORCE BASE, SOUTH CAROLINA		
4. PROJECT TITLE PARACHUTE DRYING TOWER		5. PROJECT NUMBER DKFX903001

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 APR 27
(b) Percent Complete as of Jan 90	100%
(c) Date 35% Designed	88 JUL 15
(d) Date Design Complete	89 APR 01
(2) Basis:	
(a) Standard or Definitive Design -	YES
(b) Where Design Was Most Recently Used -	CHARLEST
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	27
(b) All Other Design Costs	19
(c) Total	46
(d) Contract	28
(e) In-house	18
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION VARIOUS LOCATIONS		
4. PROJECT TITLE PROJECTS $1 MILLION AND UNDER		5. PROJECT NUMBER

STATE AND LOCATION	PROJECT TITLE	COST ($000)
CHARLESTON AFB, SC VDYD913501 (MAC) 211-157	C-17 ALTER ENGINE INSPECTION AND REPAIR FACILITY	840

Alter a 7,000 SF Engine Inspection and Repair Shop. (New Mission) An adequate facility is required to maintain, inspect and repair aircraft engines and to store engines and quick engine change kits in order to support the C-17 aircraft beddown. The engine repair and build-up crew areas are not large enough to support the number of engines required for effective productivity in support of the C-17 aircraft. There are no other existing facilities available to support this requirement. Without this project engine inspection and repair in support of the new C-17 aircraft will be severely hampered. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION CHARLESTON AIR FORCE BASE, SOUTH CAROLINA		
4. PROJECT TITLE C-17 ALTER ENGINE INSPECTION AND REPAIR FACILITY		5. PROJECT NUMBER VDYD913501

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 MAR 01
(b) Percent Complete as of Jan 90	65%
(c) Date 35% Designed	89 JUL 15
(d) Date Design Complete	90 MAR 15
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	50
(b) All Other Design Costs	10
(c) Total	60
(d) Contract	50
(e) In-house	10
(4) Construction Start	91 APR

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION

VARIOUS LOCATIONS

4. PROJECT TITLE PROJECTS $1 MILLION AND UNDER	5. PROJECT NUMBER

STATE AND LOCATION	PROJECT TITLE	COST ($000)
CARSWELL AFB, TX DDPF929905 (SAC) 813-231	ELECTRIC SUBSTATION ACQUISITION (PIF)	566

Electric substation acquisition. (Current Mission) The base requires a reliable source of power to support operations of all base facilities at the most economical cost to the Government. At the present time, the base receives its power supply from a single substation owned by TESCO. The base purchases its power from TESCO at the General Primary rate (after going through the substation). If the substation was base-owned, power would be purchased at the High Voltage rate (before going through the substation). This rate difference will provide the base and the Government with a significant cost savings on the annual utility costs for Carswell AFB. Carswell AFB and the United States Air Force will not realize the significant annual cost savings from owning the substation. An economic analysis has been prepared comparing the alternatives of status quo operations and base-owned operation of the substation. Based on the net present values and benefits of the respective alternatives, purchase of the substation was found to be the most cost efficient over the life of the project. The maximum allowable project cost, assuming the four year maximum amortization period for PIF, is $1,231,384. The estimated actual payback is 2.1 years.

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION VARIOUS LOCATIONS		
4. PROJECT TITLE PROJECTS $1 MILLION AND UNDER		5. PROJECT NUMBER

STATE AND LOCATION	PROJECT TITLE	COST ($000)
GOODFELLOW AFB, TX JCGU890906 (ATC) 130-835	SECURITY POLICE OPERATIONS FACILITY	980

Construct a 10,000 SF security police operations facility (Current Mission) to effectively safeguard the highly classified resources associated with the high-tech intelligence training mission. This activity is also tasked with securing the PAVE PAWS Southwest, a radar site which is a critical link in the national attack warning and detection system. Included will be law enforcement, investigations and confinement. Additionally, secure rooms are required for storage of weapons, ammunition and related law enforcement equipment. Existing security police activities are currently occupying a deteriorated Korean War vintage metal building. It is sited at the opposite end of the base from where the most security-critical resources are located, causing poor response time to high security resources. Intelligence training on base and PAVE PAWS support off-base has increased the squadron from 85 to 118 persons. The facility is undersized and cannot accommodate the necessary training and confinement requirements. Without the facility, the mission will continue to be carried on with less than optimum effectiveness and efficiency and with the risk of compromise of the secure storage of base weapons and ammunition. An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost efficient over the life of the project. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION

GOODFELLOW AIR FORCE BASE, TEXAS

4. PROJECT TITLE SECURITY POLICE OPERATIONS FACILITY	5. PROJECT NUMBER JCGU890906

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 NOV 15
(b) Percent Complete as of Jan 90	50%
(c) Date 35% Designed	89 SEP 01
(d) Date Design Complete	90 JUN 20
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	103
(b) All Other Design Costs	
(c) Total	103
(d) Contract	59
(e) In-house	44
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION VARIOUS LOCATIONS		
4. PROJECT TITLE PROJECTS $1 MILLION AND UNDER		5. PROJECT NUMBER

STATE AND LOCATION	PROJECT TITLE	COST ($000)
LAUGHLIN AFB, TX MXDP889996 (ATC) 442-765	TROOP SUBSISTENCE WAREHOUSE	450

Construct a 4,050 SF troop subsistence warehouse. (Current Mission) Proper care and control of perishable foods, meats, produce and dairy products require a facility of adequate size and configuration with proper environmental controls. The existing facility is totally inadequate and unsuitable. The 30 year-old wood frame building has dry rot areas throughout, interior walls of walk-in freezers are deteriorating, and the roof requires complete replacement. The refrigeration equipment is also 30 years old and is not energy efficient. Piping in various parts of the building is deteriorating. The refrigeration equipment has frequently failed to maintain the required temperature. One facility will be disposed of as a result of this project. Without this facility, troop issue will continue operations in a substandard facility. Also, maintenance costs and energy consumption will continue to rise and food spoilage will increase due to equipment failure. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION LAUGHLIN AIR FORCE BASE, TEXAS		
4. PROJECT TITLE TROOP SUBSISTENCE WAREHOUSE		5. PROJECT NUMBER MXDP889996

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 JAN 03
(b) Percent Complete as of Jan 90	50%
(c) Date 35% Designed	89 MAR 30
(d) Date Design Complete	90 JUL 01
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	107
(b) All Other Design Costs	
(c) Total	107
(d) Contract	30
(e) In-house	77
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION VARIOUS LOCATIONS		
4. PROJECT TITLE PROJECTS $1 MILLION AND UNDER		5. PROJECT NUMBER

STATE AND LOCATION	PROJECT TITLE	COST ($000)
LAUGHLIN AFB, TX MXDP913001 (ATC) 171-212	ADD TO AND ALTER FLIGHT SIMULATOR	400

Add to and alter a flight simulator facility. (New Mission) Modifications to the existing Terrain Model Board (TMB) room in the flight simulator facility are required to accommodate additional contractor space for instruction in the simulator. This instruction will require individual student briefing and debriefing. Modifying the TMB rooms provides optimum use of space since they are located next to the simulators and are ideal locations for the contractor and briefing space. The TMB rooms previously housed four large terrain boards that were used to add realistic visual pictures in the simulator. Computer imagery eliminated the need for the large terrain boards. Failure to accomplish this project will impact overall mission capabilities. Adequate facilities will not be available to perform the required briefings prior to and after each simulator mission. Currently there is no space available to house the contractor, and since the contractor will be tasked to work 16 hours a day, the contractor must have adequate space near the simulators. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION

LAUGHLIN AIR FORCE BASE, TEXAS

4. PROJECT TITLE ADD TO AND ALTER FLIGHT SIMULATOR	5. PROJECT NUMBER MXDP913001

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 MAY 09
(b) Percent Complete as of Jan 90	75%
(c) Date 35% Designed	89 AUG 13
(d) Date Design Complete	90 MAR 24
(2) Basis:	
(a) Standard or Definitive Design -	YES
(b) Where Design Was Most Recently Used -	REESE
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	20
(b) All Other Design Costs	9
(c) Total	29
(d) Contract	19
(e) In-house	10
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION VARIOUS LOCATIONS		
4. PROJECT TITLE PROJECTS $1 MILLION AND UNDER		5. PROJECT NUMBER

STATE AND LOCATION	PROJECT TITLE	COST ($000)
LAUGHLIN AFB, TX MXDP919992 (ATC) 211-000	SPECIALIZED UPT MAINTENANCE SUPPORT	970

Specialized UPT maintenance support. (New Mission) New support facilities are necessary to accommodate additional training aircraft obtained from Tanker-Transport-Trainer System (TTTS) bases. Laughlin is currently an Undergraduate Pilot Training (UPT) base with both T-37 and T-38 aircraft. Air Training Command implementation of the TTTS program will divide UPT into specialized training with fighter/bomber training at Laughlin. The new TTTS aircraft will not be deployed at Laughlin. Instead, additional T-37 and T-38 aircraft will be relocated there to train fighter/bomber pilot candidates. This project is required to provide facility support for the 71 additional aircraft scheduled for Laughlin. Failure to accomplish this project will impact overall mission capabilities. Adequate facilities will not be available to provide the required support for the 71 additional aircraft. This could result in mission failure and possible loss of property and/or life. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION LAUGHLIN AIR FORCE BASE, TEXAS		
4. PROJECT TITLE SPECIALIZED UPT MAINTENANCE SUPPORT		5. PROJECT NUMBER MXDP919992

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 DEC 01
(b) Percent Complete as of Jan 90	60%
(c) Date 35% Designed	89 SEP 15
(d) Date Design Complete	90 APR 15
(2) Basis:	
(a) Standard or Definitive Design -	YES
(b) Where Design Was Most Recently Used -	LAUGHLIN
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	59
(b) All Other Design Costs	20
(c) Total	79
(d) Contract	60
(e) In-house	19
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION VARIOUS LOCATIONS		
4. PROJECT TITLE PROJECTS $1 MILLION AND UNDER		5. PROJECT NUMBER

STATE AND LOCATION	PROJECT TITLE	COST ($000)
REESE AFB, TX UBNY870002 (ATC) 610-142	TRAFFIC MANAGEMENT FACILITY	990

Construct a 7,900 SF traffic management facility. (Current Mission) An adequate facility is required to control and administer all inbound and outbound commercial freight shipments. Functions to be accommodated include packing, crating, inspection, loading, unloading, receiving and shipping. These functions are currently housed in one substandard facility and a small section of an adequate facility. The packing and crating operation is located in a 1942 WWII, deteriorating wood frame facility located in the center of the community complex. The facility is beyond economical repair. Critical problems include inadequate lighting, insulation and mechanical systems. This project will provide a new facility to correct these deficiencies and will allow for the demolition of one WWII facility. Without the new facility, the old facility will continue to deteriorate until it becomes a hazard to life and property and will have to be condemned. Additionally, there are no available facilities to support this function. This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION REESE AIR FORCE BASE, TEXAS		
4. PROJECT TITLE TRAFFIC MANAGEMENT FACILITY		5. PROJECT NUMBER UBNY870002

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 APR 01
(b) Percent Complete as of Jan 90	90%
(c) Date 35% Designed	89 MAY 10
(d) Date Design Complete	89 NOV 30
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	71
(b) All Other Design Costs	
(c) Total	71
(d) Contract	57
(e) In-house	14
(4) Construction Start	91 FEB

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION VARIOUS LOCATIONS		
4. PROJECT TITLE PROJECTS $1 MILLION AND UNDER		5. PROJECT NUMBER

STATE AND LOCATION	PROJECT TITLE	COST ($000)
SHEPPARD AFB, TX VNVP872006 (ATC) 211-159	AIRCRAFT CORROSION CONTROL FACILITY	550

Construct an aircraft corrosion control facility. (New Mission) An adequate facility is required for corrosion control of Euro-NATO Joint Jet Pilot Training (ENJJPT) program aircraft and powered and nonpowered support equipment. Aircraft require complete painting every three years. Support equipment items require corrosion control treatment annually. This facility will be used to strip all paint from aircraft and/or support equipment prior to repainting. Space is included for preparation of an aircraft prior to the blasting process. Chemical paint stripping and painting of aircraft and support equipment are currently done in the same facility. A plastic bead blast process is replacing chemical stripping to eliminate various environmental concerns with disposal of stripping waste. The bead blasting and painting functions are not compatible for joint use of the same hangar, and the workload increase from 105 aircraft in 1981 to the current inventory of 188 requires a separate facility to accommodate plastic bead blast paint removal. Without this facility, it will be impossible to provide an adequate corrosion control program for the assigned aircraft. In addition, environmental and disposal problems associated with the use of hazardous chemicals in the current stripping process are becoming increasingly critical and costly. An ineffective corrosion control program will lead to costly repair or replacement of structural parts which will adversely affect the ENJJPT mission. Total project cost of $1,100,000 will be shared equally by the Air Force and the ENJJPT nations. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION SHEPPARD AIR FORCE BASE, TEXAS		
4. PROJECT TITLE AIRCRAFT CORROSION CONTROL FACILITY		5. PROJECT NUMBER VNVP872006

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 APR 01
(b) Percent Complete as of Jan 90	50%
(c) Date 35% Designed	89 MAY 23
(d) Date Design Complete	90 AUG 01
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	95
(b) All Other Design Costs	33
(c) Total	128
(d) Contract	95
(e) In-house	33
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION VARIOUS LOCATIONS		
4. PROJECT TITLE PROJECTS $1 MILLION AND UNDER		5. PROJECT NUMBER

STATE AND LOCATION	PROJECT TITLE	COST ($000)
LANGLEY AFB, VA MUHJ903016 (TAC) 211-193	SOUND SUPPRESSOR SUPPORT	600

Construct and install utilities for installation of sound suppressor equipment scheduled for delivery in 1991. (New Mission) Sound suppressor facilities are required to perform aircraft engine test, inspection, calibration and repair while engines are mounted on a test stand or on the aircraft. Sound suppressors are also required to eliminate health/occupational safety hazards and environmental problems resulting from high noise levels associated with engine testing. Existing engine sound suppressor test facilities are not sufficient to service the number of aircraft assigned to Langley AFB. Testing cannot be accomplished in unsuppressed outdoor facilities between 2230 hours and 0630 hours due to proximity to adjacent housing. During winter months sub-freezing temperatures can cause engine parts to freeze. Rain endangers maintenance personnel who work with electrical connections. Without this project, maintenance personnel at Langley AFB must continue conducting aircraft engine tests outside, subject to time and weather restrictions. This delays maintenance and results in a decrease in number of combat ready aircraft. Excessive noise will continue to be an occupational health hazard and adversely affect base and community relations. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION LANGLEY AIR FORCE BASE, VIRGINIA		
4. PROJECT TITLE SOUND SUPPRESSOR SUPPORT		5. PROJECT NUMBER MUHJ903016

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 FEB 01
(b) Percent Complete as of Jan 90	95%
(c) Date 35% Designed	89 JUN 01
(d) Date Design Complete	90 FEB 01
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	36
(b) All Other Design Costs	
(c) Total	36
(d) Contract	36
(e) In-house	
(4) Construction Start	91 JAN

b. Equipment associated with this project will be provided from other appropriations:

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
SOUND SUPPRESSOR	3010	1991	1400

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION

VARIOUS LOCATIONS

4. PROJECT TITLE PROJECTS $1 MILLION AND UNDER	5. PROJECT NUMBER

STATE AND LOCATION	PROJECT TITLE	COST ($000)
FAIRCHILD AFB, WA PAYZ913251 (SYS) 217-722	PEACEKEEPER-ADD TO AND ALTER COMMUNICATIONS MAINT FACILITY	990

Add to and alter communications maintenance facility. (New Mission) An adequate facility is needed to support the maintenance and repair of rail garrison communications equipment. The facility shall provide for a missile radio work center, antenna work center, Air Force satellite communications work center, Base Installation Security System work center and associated material control, storage and support areas. There are no existing facilities at this location that satisfy or can accommodate the unique rail garrison communications maintenance requirements. Without the facility, the garrison security system would be compromised due to the lack of an adequate maintenance area to repair and maintain weapon system communications components and spares. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION FAIRCHILD AIR FORCE BASE, WASHINGTON		
4. PROJECT TITLE PEACEKEEPER-ADD TO AND ALTER COMMUNICATIONS MAINT FACILITY		5. PROJECT NUMBER PAYZ913251

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 JUL 01
(b) Percent Complete as of Jan 90	35%
(c) Date 35% Designed	89 OCT 10
(d) Date Design Complete	90 JUN 15
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	45
(b) All Other Design Costs	15
(c) Total	60
(d) Contract	50
(e) In-house	10
(4) Construction Start	90 DEC

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION VARIOUS LOCATIONS		
4. PROJECT TITLE PROJECTS $1 MILLION AND UNDER		5. PROJECT NUMBER

STATE AND LOCATION	PROJECT TITLE	COST ($000)
FAIRCHILD AFB, WA PAYZ913273 (SYS) 911-000	PEACEKEEPER-LAND ACQUISITION	1000

Purchase 419 acres of real estate and one house for the Peacekeeper Rail Garrison System safety zones and rights-of-way for roads, railroad, utilities; relocate Resistance Training. (New Mission) Purchase of additional land for the Peacekeeper Rail Garrison System safety zones and relocation of the Resistance Training area currently located on the Rail Garrison site. Rights-of-way for roads, railroad, power transmission, and communications must also be obtained as well as quantity-distance easements in order to adequately base the weapon system. Existing Air Force real estate holdings are inadequate to support this new mission. Deployment of Peacekeeper in a garrison area for a rail system will not be possible. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

249 acres to be acquired as easements
170 acres to be acquired in fee

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION VARIOUS LOCATIONS		
4. PROJECT TITLE PROJECTS $1 MILLION AND UNDER		5. PROJECT NUMBER

STATE AND LOCATION	PROJECT TITLE	COST ($000)
CLASSIFIED LOCATION HTAC913003 217-712	ALTER AVIONICS SHOP	850

Alter existing avionics maintenance facility. (New Mission) A facility of adequate size and configuration with proper environmental controls is required to control and perform required maintenance tasks on the F-117 avionics systems and components. Systems/functions to be accommodated include communications, navigation, flight control, weapons control, sensors, electronic warfare systems and instruments. Base 186 has facilities configured to support normal fighter type aircraft. The F-117 aircraft has unique requirements which must be supported. In order for the base to accommodate its new mission, the proper F-117 unique facilities must be provided. The existing avionics facility must be altered by reconfiguration of space and power to accommodate F-117 avionics test stations. In addition, proper security must be provided for maintenance and storage areas for avionics components which are classified. Avionics components cannot be repaired on base unless improvements are made to the existing maintenance facility. Without an on-base avionics repair capability, the F-117 mission cannot be supported. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". However, this project does meet the criteria/scope specified in Air Force Manual 86-2, "Standard Facility Requirements".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION BASE 186		
4. PROJECT TITLE ALTER AVIONICS SHOP		5. PROJECT NUMBER HTAC913003

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 DEC 12
(b) Percent Complete As of Jan 90	5%
(c) Date 35% Designed	90 JUN 06
(d) Date Design Complete	90 DEC 12
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	75
(b) All Other Design Costs	20
(c) Total	95
(d) Contract	75
(e) In-house	20
(4) Construction Start	91 MAR

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION VARIOUS LOCATIONS		
4. PROJECT TITLE PROJECTS $1 MILLION AND UNDER		5. PROJECT NUMBER

STATE AND LOCATION	PROJECT TITLE	COST ($000)
CLASSIFIED LOCATION HTAC913005 216-642	CONVENTIONAL MUNITIONS SHOP	950

Construct two conventional munitions maintenance shops. Properly sized and functionally adequate facilities with pull through bays are required for maintenance actions including maintaining and assembling practice bombs, cluster bomb units (CBUs), bomb buildup, and chaff/flare build-up. Base 186 has facilities configured to support normal fighter type aircraft. The F-117 aircraft has unique requirements which must be supported. In order for the base to accommodate its new mission, the proper F-117 unique facilities must be provided. The F-117's will perform a tactical fighter role. As a result, munitions will increase both type and quantity. The existing munitions area does not have facilities with the capacity to maintain the increased inventory. Properly maintained munitions are a must for the F-117 unit to perform its mission. The F-117 units mission will be degraded due to lack of proper maintenance of munitions. (New Mission).

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION BASE 186		
4. PROJECT TITLE CONVENTIONAL MUNITIONS SHOP		5. PROJECT NUMBER HTAC913005

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 DEC 12
(b) Percent Complete as of Jan 90	5%
(c) Date 35% Designed	90 JUN 06
(d) Date Design Complete	90 DEC 12
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	75
(b) All Other Design Costs	20
(c) Total	95
(d) Contract	75
(e) In-house	20
(4) Construction Start	91 MAR

b. Equipment associated with this project will be provided from other appropriations: N/A

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION VARIOUS LOCATIONS		
4. PROJECT TITLE PROJECTS $1 MILLION AND UNDER		5. PROJECT NUMBER

STATE AND LOCATION	PROJECT TITLE	COST ($000)
GHEDI FLD, IT ESDS913804B (SYS) 420-000	ALTER MUNITIONS STORAGE FACILITY	550

Alter munitions storage facilities. (New Mission) This integrated subsystem provides dispersed, secure storage for tactical munitions at locations throughout USAFE and PACAF. Remote secure storage is achieved by intrusion detection sensors around the facility integrated with the C3 subsystem. Existing munitions storage facilities do not provide the level of survivability for the weapons. The remote security control system at each installation will reduce security police manpower requirements by over 500 worldwide. Without this system, centrally stored munitions will not be properly secured. Alterations to existing facilities will provide safe, secure storage while greatly enhancing the munitions survivability and operational readiness. This project was approved for NATO recoupment. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION GHEDI TORRE AIR BASE, ITALY		
4. PROJECT TITLE ALTER MUNITIONS STORAGE FACILITY		5. PROJECT NUMBER ESDS913804B

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 JUL 01
(b) Percent Complete as of Jan 90	100%
(c) Date 35% Designed	88 DEC 01
(d) Date Design Complete	89 JUN 01
(2) Basis:	
(a) Standard or Definitive Design -	YES
(b) Where Design Was Most Recently Used -	RAMSTEIN
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	25
(b) All Other Design Costs	8
(c) Total	33
(d) Contract	28
(e) In-house	5
(4) Construction Start	90 NOV

b. Equipment associated with this project will be provided from other appropriations:

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
CENTRAL SECURITY EQUIPMENT (CONSOLE W/MONITORS) (VIDEO RECEIVER/SWITCHER) (DATA AUTHENTICATOR/COMM) (INTERFACE UNIT/JUNCTION BOX) (MESSAGE PROCESSOR)	3080	90	860
REMOTE FACILITY EQUIPMENT (CONSOLE/KEYBOARD/PRINTER) (JUNCTION BOX/PROCESSOR)	3080	90	51
EQUIPMENT (VIDEO TRANSMITTER/MODEM)	3080	90	1514
CODE TRANSFER EQUIPMENT	3080	90	503

DD FORM 1391C, DEC 76 Previous editions are obsolete. Page No

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION VARIOUS LOCATIONS		
4. PROJECT TITLE PROJECTS $1 MILLION AND UNDER		5. PROJECT NUMBER

STATE AND LOCATION	PROJECT TITLE	COST ($000)
RIMINI FLD, IT ESDS913804D (SYS) 420-000	ALTER MUNITIONS STORAGE FACILITY	510

Alter munitions storage facilities. (New Mission) This integrated subsystem provides dispersed, secure storage for tactical munitions at locations throughout USAFE and PACAF. Remote secure storage is achieved by intrusion detection sensors around the facility integrated with the C3 subsystem. Existing munitions storage facilities do not provide the level of survivability for the weapons. The remote security control system at each installation will reduce security police manpower requirements by over 500 worldwide. Without this system, centrally stored munitions will not be properly secured. Alterations to existing facilities will provide safe, secure storage while greatly enhancing the munitions survivability and operational readiness. This project was approved for NATO recoupment. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION RIMINI AIR BASE, ITALY		
4. PROJECT TITLE ALTER MUNITIONS STORAGE FACILITY		5. PROJECT NUMBER ESDS913804D

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 JUL 01
(b) Percent Complete as of Jan 90	100%
(c) Date 35% Designed	88 DEC 01
(d) Date Design Complete	89 JUN 01
(2) Basis:	
(a) Standard or Definitive Design -	YES
(b) Where Design Was Most Recently Used -	RAMSTEIN
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	25
(b) All Other Design Costs	4
(c) Total	29
(d) Contract	26
(e) In-house	3
(4) Construction Start	90 NOV

b. Equipment associated with this project will be provided from other appropriations:

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)
CENTRAL SECURITY EQUIPMENT (CONSOLE W/MONITORS) (VIDEO RECEIVER/SWITCHGEAR) (DATA AUTHENICATOR/COMM) (INTERFACE UNIT/JUNCTION BOX) (MESSAGE PROCESSOR)	3080	90	860
REMOTE FACILITY EQUIPMENT (CONSOLE/KEYBOARD/PRINTER) (JUNCTION BOX/PROCESSOR)	3080	90	51
EQUIPMENT (VIDEO TRANSMITTER/MODEM)	3080	90	1517
CODE TRANSFER EQUIPMENT	3080	90	503

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION VARIOUS LOCATIONS		
4. PROJECT TITLE PROJECTS $1 MILLION AND UNDER		5. PROJECT NUMBER

STATE AND LOCATION	PROJECT TITLE	COST ($000)
KADENA AB, JA LXEZ904242 (CSV) 149-962	CONTROL TOWER CAB	770

Construct a new cab on existing control tower structure. (Current Mission) Replacement tower cab with adequate working space is required for air traffic controllers. Additional floor space, larger windows and a higher ceiling are necessary for the tower controller to observe aircraft throughout the traffic pattern. The facility must also be adequately sized and environmentally controlled to accommodate operating personnel and sensitive communications equipment. The control tower cab is too small to effectively accomplish the mission and does not provide adequate working space for the number of personnel assigned. Due to the multi-command operation at Kadena, the tower must accommodate more people than normal. Because of the crowded conditions in the cab, the controller's ability to see all aircraft in the pattern is restricted. With this limited space, simple procedures used in sequencing aircraft become a major problem both on the ground and in the air. Failure to replace this tower cab increases the potential for flying safety hazards and could result in an aircraft mishap. Project does not qualify for host nation funding. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION

KADENA AIR BASE, JAPAN

4. PROJECT TITLE CONTROL TOWER CAB	5. PROJECT NUMBER LXEZ904242

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 JAN 15
(b) Percent Complete as of Jan 90	90%
(c) Date 35% Designed	89 JUL 15
(d) Date Design Complete	90 JAN 15
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	45
(b) All Other Design Costs	5
(c) Total	50
(d) Contract	45
(e) In-house	5
(4) Construction Start	91 JAN

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION VARIOUS LOCATIONS		
4. PROJECT TITLE PROJECTS $1 MILLION AND UNDER		5. PROJECT NUMBER

STATE AND LOCATION	PROJECT TITLE	COST ($000)
CLARK AB, RP DVLK903336 (CSV) 149-962	CONTROL TOWER CAB	710

Construct a control tower cab. (Current Mission) A new aircraft control tower cab is required to provide air controllers a clear view of the runway and traffic pattern and provide for safe airborne and ground traffic control. It must have adequate space for personnel training, operations, crew briefings, electronic equipment maintenance, radio and telephone and radio support equipment, and environmental control equipment. The existing control tower cab does not provide the space needed by air traffic controllers to properly perform their mission. Presently, the controllers must conduct pre-duty briefings and training within the cramped space of the tower cab creating unacceptable levels of confusion. Additionally, due to the multi-command, multi-national operation at Clark AB, the tower must accommodate more personnel than normally found in other control towers. This becomes especially hazardous during exercises when air traffic control operations triple, and more than a dozen people are routinely crowded into the tower cab. The existing tower structure must be upgraded to conform to current USAF control tower fire and life safety protection requirements. Without this project, the air traffic control function will be forced to continue operating under substandard conditions which could adversely affect the flying mission of the base. There is no criteria/scope for this project in Part II of Military Handbook 1190, "Facility Planning and Design Guide". There is no host-nation program in the Republic of the Philippines.

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION CLARK AIR BASE, REPUBLIC OF THE PHILIPPINES		
4. PROJECT TITLE CONTROL TOWER CAB		5. PROJECT NUMBER DVLK903336

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 JAN 15
(b) Percent Complete as of Jan 90	90%
(c) Date 35% Designed	89 JUL 15
(d) Date Design Complete	90 JAN 15
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	45
(b) All Other Design Costs	5
(c) Total	50
(d) Contract	45
(e) In-house	5
(4) Construction Start	91 JAN

b. Equipment associated with this project will be provided from other appropriations: N/A

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1991 BUDGET REQUEST

FY 1991 NARRATIVE SUMMARY

It is Department of Defense policy that excellent housing facilities shall be provided for all military members and their families, and that continual improvement in quality is the measure of excellence. The annual military family housing appropriation supports this policy. We depend first on the local community to meet our housing needs. When not available, military family housing which meets contemporary community living standards should be provided. This housing should be operated and maintained to a standard that protects the facilities from deterioration. Our goal is to provide quality housing for a quality force.

Family housing is a top quality-of-life issue in the Air Force. Improving or revitalizing our aging housing inventory is the Air Force's top facility priority. Our military members and their families expect and deserve homes which meet current standards of livability. We cannot afford to lose highly trained Air Force members because adequate housing on or near our military installations is not available. Also, we cannot afford to let our existing military family housing inventory deteriorate. We must aim high in our family housing programmed standards to fulfill our quest to make the Air Force a great way of life.

This budget provides for a balanced program between construction, operations, maintenance, and leasing. New construction projects are for housing units and support facilities at installations with the greatest need for additional housing. The Post Acquisition Construction (Improvements) funding level indicates the Air Force's dedicated commitment to revitalize the existing inventory in order to meet contemporary standards. However, this funding level does not meet our desired goal to complete our approximate 80,000 unit backlog in less than 10 years. At the present funding level, 26 years are required to reach this goal.

The operations, maintenance, and leasing accounts predominately support "must pay" requirements such as civilian pay, service contracts, lease contracts, utilities, day-to-day and change of occupancy maintenance to keep existing housing units occupied. The maintenance account also supports our effort to decrease the deferred maintenance and repair (DMAR) backlog which avoids further deterioration and increased operation and maintenance costs. Also, the furnishings account provides required government furniture overseas and initial issue of appliances to support newly constructed or leased housing units throughout the Air Force.

While not meeting our desired level, we believe this funding profile represents a well balanced program to achieve most of our quality of life goals for military families within the fiscal constraints imposed. We respectfully request full and complete support for the Air Force family housing needs presented in this request.

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1991 BUDGET REQUEST

INDEX

SUBJECT — PAGE

FAMILY HOUSING NARRATIVE 675

INDEX 676

SUMMARY 679

LEGISLATIVE LANGUAGE

- Authorization 681
- Appropriation 684

PROGRAM AND FINANCING SCHEDULES 685

NEW MISSION/CURRENT MISSION 691

NEW CONSTRUCTION

- Summary 692
- Nellis AFB, Nevada 693
- Holloman AFB, New Mexico 695
- Charleston AFB, South Carolina 698
- Myrtle-Beach AFB, South Carolina 701
- Ellsworth AFB, South Dakota 704
- Andersen AFB, Guam 706

POST ACQUISITION CONSTRUCTION

- Summary 708
- United States
  - Alabama 710
  - Alaska 710
  - Arizona 711
  - Arkansas 712
  - California 713
  - Colorado 714
  - District of Columbia 716
  - Florida 716
  - Georgia 718
  - Idaho 718
  - Michigan 719
  - Nevada 719
  - New Mexico 720

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1991 BUDGET REQUEST

INDEX (Cont)

SUBJECT PAGE

Post Acquisition Construction Projects (Cont)

United States

New York 721
Ohio 721
Oklahoma 722
South Carolina 722
Texas 724
Utah 727
Washington 727

Overseas

Germany 728
Japan 729
Spain 731
United Kingdom 731

Post Acquisition Construction Projects Over $40,000 Per Unit 735

ADVANCE PLANNING AND DESIGN 803

OPERATIONS AND MAINTENANCE SUMMARY

Narrative 805
Inventory and Funding Summary 808

OPERATIONS

Narrative 809

UTILITIES 813

MAINTENANCE 815

MAINTENANCE AND REPAIR OVER $15,000 PER UNIT 817

GENERAL OFFICER QUARTERS MAINTENANCE AND REPAIR COSTS OVER $25,000 PER UNIT 821

REIMBURSABLE PROGRAM 823

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1991 BUDGET REQUEST

INDEX (Cont)

SUBJECT PAGE

LEASING

Narrative 824
Exhibit FH-4, Leasing (Other than Section 801 and 802) 826
Exhibit FH-5, Section 801 Leases 828

DEBT PAYMENTS 829

RENTAL GUARANTEE HOUSING 831

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1991 BUDGET REQUEST

FINANCIAL SUMMARY

AUTHORIZATION FOR APPROPRIATION REQUESTED FOR FY 1991 ($ in Thousands):

FUNDING PROGRAM FY 1991		
Construction		$ 2,988
Post-Acquisition Construction		173,612
Design and Advance Planning		6,000
Appropriation Request: Construction		$182,600
Operations, Utilities and Maintenance		$678,308
Operating Expenses	128,289	
Utilities	223,097	
Maintenance	326,922	
Leasing - Worldwide		$110,911
Debt Payment		$ 81
Principal	0	
Interest and Other Expense	0	
Premiums for Servicemen's Mortgage Insurance Coverage	81	
Appropriation Request: O&M, Leasing, and Debt Payment		$789,300
Appropriation Request		$971,900
Reimbursement Program		9,500
FY 1991 Family Housing Program		$981,400

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1991 BUDGET REQUEST

Authorization Language

SEC. 2302. FAMILY HOUSING

(a) CONSTRUCTION AND ACQUISITION - The Secretary of the Air Force may, using amounts appropriated pursuant to section 2304(a)(8)(A), construct or acquire support facilities at the following installation, and in the amount shown:

Nellis Air Force Base, Nevada, housing office, $235,000.

Holloman Air Force Base, New Mexico, housing maintenance facility, $219,000.

Charleston Air Force Base, South Carolina, housing office and maintenance facility, $592,000.

Myrtle Beach Air Force Base, South Carolina, housing office, $258,000.

Ellsworth Air Force Base, South Dakota, housing office, $313,000.

Andersen Air Force Base, Guam, housing supply and storage facility, $1,371,000.

(b) PLANNING AND DESIGN - The Secretary of the Air Force may, using amounts appropriated pursuant to section 2304(a)(8)(A), carry out architectural and engineering services and construction design activities with respect to the construction or improvement of military family housing units in an amount not to exceed $6,000,000.

SEC. 2303. IMPROVEMENT TO MILITARY FAMILY HOUSING UNITS

(a) IN GENERAL-- Subject to section 2825 of Title 10 United States Code, the Secretary of the Air Force may, using amounts appropriated pursuant to section 2304(a)(8)(A), improve existing military family housing units in an amount not to exceed $173,612,000.

(b) WAIVER OF MAXIMUM PER UNIT COST FOR CERTAIN IMPROVEMENT PROJECTS. -- Notwithstanding the maximum amount per unit for an improvement project under Section 2825 (b) of Title 10, United States Code, the Secretary of the Air Force may carry out projects to improve existing military family housing units at the following installations, in the number of units shown, and in the amount shown, for each installation:

Maxwell Air Force Base, Alabama, thirty-five units, $1,998,000.

Eielson Air Force Base, Alaska, fifty-one units, $6,070,000.

Elmendorf Air Force Base, Alaska, forty units, $4,804,000.

Eaker Air Force Base, Arkansas, two hundred and seven units, $10,169,000.

Little Rock Air Force Base, Arkansas, one hundred and fifty-three units, $6,847,000.

McClellan Air Force Base, California, twelve units, $1,062,000.

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1991 BUDGET REQUEST

Travis Air Force Base, California, one hundred and forty-four units, 8,060,000.

Peterson Air Force Base, Colorado, thirty-five units, $1,722,000.

Bolling Air Force Base, District of Columbia, sixty-four units, $2,579,000.

Eglin Air Force Base, Florida, fifty-four units, $1,987,000.

MacDill Air Force Base, Florida, forty-four units, $2,456,000.

Robins Air Force Base, Georgia, forty units, $1,710,000.

Nellis Air Force Base, Nevada, fifteen units, $1,583,000.

Plattsburgh Air Force Base, New York, two hundred and twenty-four units, $15,640,000.

Charleston Air Force Base, South Carolina, one hundred and eighty units, $8,389,000.

Myrtle Beach Air Force Base, South Carolina, one hundred and thirty units, $6,459,000.

Shaw Air Force Base, South Carolina, sixty-four units, $3,011,000.

Bergstrom Air Force Base, Texas, forty-six units, $1,729,000.

Kelly Air Force Base, Texas, thirty-seven units, $2,301,000.

Laughlin Air Force Base, Texas, one hundred and forty units, $5,427,000.

Sheppard Air Force Base, Texas, one hundred and ninety-seven units, $8,133,000.

Hill Air Force Base, Utah, four units, $84,000.

Fairchild Air Force Base, Washington, two hundred and two units, $11,559,000.

Ramstein Air Base, Germany, one unit, $124,000; fifty-four units, $2,085,000; ninety units, $3,440,000.

Kadena Air Base, Japan, seventy-five units, $6,208,000; ninety-eight units, $6,028,000.

Moron Air Base, Spain, thirty-six units, $2,107,000.

RAF Chicksands, United Kingdom, thirty-four units, $2,647,000.

RAF Kemble, United Kingdom, two units, $120,000.

RAF Lakenheath, United Kingdom, sixty units, $2,985,000; ten units, $892,000; fourteen units, $940,000.

(c) WAIVER OF SPACE LIMITATION FOR FAMILY HOUSING UNITS. --

(1) To support the United States Air Force in Europe (USAFE) and Tactical Air Command (TAC), the Secretary of the Air Force may carry out an improvement project to add to and alter an existing family housing unit and (notwithstanding section 2826 (a) of Title 10, United States Code) increase the net floor area of one family housing unit at Ramstein Air Base Germany, to not more than 3,636 square feet; and increase the net floor area of fifteen family housing units at Nellis Air Force Base, Nevada, to not more than 1,970 square feet.

(2) For purpose of the subsection the term "net floor area" has the same meaning given that term by section 2826(f) of Title 10, United States Code.

SEC. 2304. AUTHORIZATION OF APPROPRIATIONS, AIR FORCE

(a) IN GENERAL

(8) For Military family Housing functions -

(A) For Construction and Acquisition of Military Family Housing and Facilities, $182,600,000; and

(B) For support of Military housing (including functions described in Section 2833 of Title 10, United States Code), $789,300,000 of which not more than $110,911,000 may be obligated or expended for leasing of Military Family Housing units worldwide.

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1991 BUDGET REQUEST

Appropriation Language

For expenses of family housing for the Air Force for construction, including acquisition, replacement, addition, expansion, extension and alteration and for operations and maintenance, including debt payment, leasing, minor construction, principal and interest charges, and insurance premiums, as authorized by law, as follows: for Construction, [$200,071,000] $182,600,000, for Operations and Maintenance, and Debt Payment [$739,655,000] $789,300,000; in all [$939,726,000] $971,900,000: Provided, That the amount provided for construction shall remain available until [September 30, 1994] September 30, 1995.

Family Housing Operations and Debt, AF
Program and Financing (in thousands of dollars)

Identification code 57-7045-0-1-051		1989 actual	1990 est.	1991 est.
	Program by activities:			
	Direct program:			
02.0101	Operating expenses	369,258	346,279	351,386
02.0201	Leasing	67,192	93,847	110,911
02.0301	Maintenance of real property	331,373	299,439	326,922
02.0401	Interest payments	1		
02.0501	Mortgage insurance premiums	100	90	81
02.9101	Total direct program	767,924	739,655	789,300
03.0101	Reimbursable Program	8,978	9,303	9,500
10.0001	Total obligations	776,902	748,958	798,800
	Financing:			
	Offsetting collections from:			
11.0001	Federal funds(-)	-250	-8,280	-8,455
13.0001	Trust funds(-)	-18		
14.0001	Non-Federal sources(-)	-8,710	-1,023	-1,045
22.4001	Unobligated balance transferred to other accounts	-30,999		
25.0001	Unobligated balance lapsing	8,276		
39.0001	Budget authority	745,200	739,655	789,300
	Budget authority:			
40.0001	Appropriation	735,266	741,808	789,300
40.0090	Reduction pursuant to P.L. 99-177		-2,153	
40.4701	Portion applied to debt reduction(-)	-66		
42.0001	Transferred from other accounts	10,000		
43.0001	Appropriation (adjusted)	745,200	739,655	789,300
	Relation of obligations to outlays:			
71.0001	Obligations incurred, net	767,924	739,655	789,300
72.4001	Obligated balance, start of year	317,080	311,909	313,811
73.0001	Obligated balance transferred, net	661		
74.4001	Obligated balance, end of year	-311,909	-313,811	-344,539
77.0001	Adjustments in expired accounts (net)	-5,617		
90.0001	Outlays	768,138	737,753	758,572

Family Housing Operations and Debt, AF
Object Classification (in Thousands of dollars)

Identification code 57-7045-0-1-051	1989 actual	1990 est.	1991 est.
Direct obligations:			
121.001 Travel and transportation of persons	154	250	269
122.001 Transportation of things	2,304	2,838	3,048
123.201 Rental payments to others	204,269	128,916	144,211
Other services:			
125.003 Contracts	218,704	228,710	245,595
125.004 Other	115,956	124,371	133,553
126.001 Supplies and materials	11,519	12,521	13,445
131.001 Equipment	36,092	39,231	42,127
132.001 Land and structures	160,496	172,785	185,541
143.001 Interest and dividends	18,430	20,033	21,511
199.001 Total Direct obligations	767,924	739,655	789,300
Reimbursable obligations			
Other services:			
225.004 Other	8,978	9,303	9,500
299.001 Total Reimbursable obligations	8,978	9,303	9,500
999.901 Total obligations	776,902	748,958	798,800

Family Housing Construction, Air Force
Program and Financing (in Thousands of dollars) FISCAL YEAR 1989

Identification code	57-7040-0-1-051	Budget Plan (amounts for FAMILY HOUSING actions programed) 1989 actual	1990 est.	1991 est.	Obligations 1989 actual	1990 est.	1991 est.
	Program by activities:						
	Direct program:						
01.0101	Construction of new housing	31,120			25,344	5,669	87
01.0201	Post Acquisition Construction	148,438			139,040	1,753	5,250
01.0301	Planning and design	7,000			4,800	600	280
10.0001	Total	186,558			169,184	8,022	5,597
	Financing:						
	Unobligated balance available, start of year:						
21.4002	For completion of prior year budget plans					-17,374	-9,352
21.4003	Available to finance new budget plans		-327			-327	
22.4001	Unobligated balance transferred to other acc	-11,200			-11,200		
23.4090	Reduction pursuant to P.L. 99-177 in unob ba		327			327	
	Unobligated balance available, end of year:						
24.4002	For completion of prior year budget plans				17,374	9,352	3,755
24.4003	Available to finance subsequent year budge	327			327		
40.0001	Budget authority (Appropriation)	175,685			175,685		

Family Housing Const. ..tion, Air Force
Program and Financing (in Thousands of dollars) FISCAL YEAR 1990

		Budget Plan (amounts for FAMILY HOUSING actions programed)			Obligations		
Identification code	57-7040-0-1-051	1989 actual	1990 est.	1991 est.	1989 actual	1990 est.	1991 est.
	Program by activities:						
	Direct program:						
01.0101	Construction of new housing		18,722			17,887	339
01.0201	Post Acquisition Construction		173,349			140,811	23,670
01.0301	Planning and design		8,000			5,760	1,600
10.0001	Total		200,071			164,458	25,609
	Financing:						
	Unobligated balance available, start of year:						
21.4002	For completion of prior year budget plans						-35,613
	Unobligated balance available, end of year:						
24.4002	For completion of prior year budget plans					35,613	10,004
40.0001	Budget authority (Appropriation)		200,071			200,071	

Family Housing Construction, Air Force
Program and Financing (in thousands of dollars) FISCAL YEAR 1991

Identification code 57-7040-0-1-051	Budget Plan (amounts for FAMILY HOUSING actions programed) 1989 actual	1990 est.	1991 est.	Obligations 1989 actual	1990 est.	1991 est.
Program by activities:						
Direct program:						
01.0101 Construction of new housing			2,988			2,308
01.0201 Post Acquisition Construction			173,612			143,469
01.0301 Planning and design			6,000			4,320
10.0001 Total			182,600			150,097
Financing:						
Unobligated balance available, end of year:						
24.4002 For completion of prior year budget plans						32,503
40.0001 Budget authority (Appropriation)			182,600			182,600

Family Housing Construction, Air Force
Object Classification (in Thousands of dollars) SUMMARY

Identification code 57-7040-0-1-051	1989 actual	1990 est.	1991 est.
Direct obligations:			
132.001 Land and structures	223,580	226,614	193,558
199.001 Total Direct obligations	223,580	226,614	193,558
999.901 Total obligations	223,580	226,614	193,558

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1991 BUDGET REQUEST

NEW AND CURRENT MISSION ACTIVITIES

In compliance with the Senate Appropriations Committee Report (100-380) on the FY 1989 Military Construction Appropriation Act, the Air Force has included the following exhibit that displays construction projects requested in two separate categories: new mission and current mission. "New mission" projects are defined as these projects that support fielding of new weapon systems, force initiatives, and major mission expansions. "Current mission" projects are these projects that either replace inadequate existing facilities or construct new facilities which are not available to meet current requirements.

New Construction

Location	Project	Cost ($000)	New/Current
Nellis AFB, NV	Housing Office	235	C
Holloman AFB, NM	Housing Maintenance Facility	219	C
Charleston AFB, SC	Housing Office & Maintenance Facility	592	C
Myrtle Beach AFB, SC	Housing Office	258	C
Ellsworth AFB, SD	Housing Office	313	C
Andersen AFB, Guam	Housing Supply & Storage Facility	1,371	C
New Mission Total		0	
Current mission total		2,988	
Improvements		173,612	
Planning and Design		6,000	

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1991 BUDGET REQUEST

NEW CONSTRUCTION

Program (In Thousands)	
FY 1991 Program	$2,988
FY 1990 Program	$18,722

Purpose and Scope

This program provides for the construction of new homes at locations where off-base assets are not available to provide adequate housing for Air Force personnel, and support facilities at locations where existing facilities are not adequate. Costs reflect all amounts necessary to provide complete and usable facilities.

Program Summary

Authorization is requested for:

Construction of 6 support facilities.

A summary of the funding program for FY 1991 follows:

SUPPORT FACILITIES	MISSION	NUMBER OF UNITS	REQUESTED AUTHORIZATION AMOUNT ($000)
Nellis AFB, NV	Current	Housing Office	235
Holloman AFB, NM	Current	Housing Maintenance Facility	219
Charleston AFB, SC	Current	Housing Office & Maintenance Facility	592
Myrtle-Beach AFB, SC	Current	Housing Office	258
Ellsworth AFB, SD	Current	Housing Office	313
Andersen AFB, Guam	Current	Housing Supply & Storage Facility	1,371
		Total	2,988

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION NELLIS AFB, NEVADA	4. PROJECT TITLE CONSTRUCT FAMILY HOUSING MANAGEMENT OFFICE

5. PROGRAM ELEMENT 8.87.41	6. CATEGORY CODE 610-119	7. PROJECT NUMBER RKMF870183	8. PROJECT COST($000) 235

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
FAMILY HOUSING MANAGEMENT OFFICE	SF	2,355	84	198
SUPPORTING FACILITIES				14
ASPHALT PAVING	SY	1,000	5	(5)
UTILITIES	LS			(9)
SUBTOTAL				212
CONTINGENCY (5%)				11
TOTAL CONTRACT COST				223
SUPERVISION, INSPECTION AND OVERHEAD (5.5%)				12
TOTAL REQUEST				235
AREA COST FACTOR 1.09				

10. Description of Proposed Construction: Construct a 2,355 square foot building on a six inch concrete slab, with standard 2x4 interior partitions, carpet, vinyl wall covering and drop ceiling. Project also includes a fire detection system, water, sewer, electrical, HVAC, and other utilities as required.

11. REQUIREMENT: 2,355 SF ADEQUATE: 0 SUBSTANDARD: 1,863 SF

PROJECT: Construct a Family Housing Management Office. (Current Mission)

REQUIREMENT: A Family Housing Management Office with a functionally effective configuration and in a prominent location that is convenient to other family services and military processing facilities.

CURRENT SITUATION: The family housing management office provides service to over 8700 families and unaccompanied personnel living off-base and manages the assignment, termination and maintenance of 1471 family houisng units and 100 mobile home spaces. In FY 87 they assisted over 1150 personnel in finding off-base housing. The existing housing office facilities are located on the second floor of the Consolidated Base Personnel Office Building where floor space is very limited and floor layout restricts performance of referral, counseling, management, and training requirements.

IMPACT IF NOT PROVIDED: Housing office personnel will continue to operate in an increasingly congested area as new personnel are added to the staff. Housing customers will be forced to obtain service in a cramped, inconvenient office setting.

ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION NELLIS AFB, NEVADA		
4. PROJECT TITLE CONSTRUCT FAMILY HOUSING MANAGEMENT OFFICE		5. PROJECT NUMBER RKMF870183

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 MAR 01
(b) Percent Complete as of Jan 90	35%
(c) Date 35% Designed	89 NOV 30
(d) Date Design Complete	90 APR 30
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	5
(b) All Other Design Costs	2
(c) Total	7
(d) Contract	7
(e) In-house	
(4) Construction Start	91 MAY

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION HOLLOMAN AFB, NEW MEXICO	4. PROJECT TITLE CONSTRUCT FAMILY HOUSING MAINTENANCE FACILITY

5. PROGRAM ELEMENT 8.87.41	6. CATEGORY CODE 219-944	7. PROJECT NUMBER KWRD860094	8. PROJECT COST($000) 219

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
FAMILY HOUSING MAINTENANCE FACILITY	SF	4,000	45	180
SUPPORTING FACILITIES				18
DEMOLITION	LS			(5)
SITE IMPROVEMENTS	LS			(13)
SUBTOTAL				198
CONTINGENCY (5%)				10
TOTAL CONTRACT COST				208
SUPERVISION, INSPECTION AND OVERHEAD (5.5%)				11
TOTAL REQUEST				219
AREA COST FACTOR 1.08				

10. Description of Proposed Construction: Construct a 40' x 100' maintenance/storage facility. Construction includes a split face block masonry building with six inch thick reinforced concrete slab floor and reinforced foundations, overhead doors, personnel doors, and windows. The facility will include a carpenter shop, appliance shop, electrical and mechanical supply area, self-help area, office area and latrines.

11. REQUIREMENT: 4,000 SF ADEQUATE: 0 SUBSTANDARD: 3,189 SF

PROJECT: Construct Housing Maintenance Facility to serve the military family housing areas. (Current Mission)

REQUIREMENT: A maintenance and storage facility is required for storage ofgovernment materials. The housing maintenance contractor is responsible for maintaining 1551 units or approximately 2,285,542 SF of floor space in the military family housing area. Storage of supplies and parts include lumber, electrical wire and fixtures, plumbing fixtures, pipes and fittings, sheet metal, roofing repair materials, and other items used for routine service and maintenance. Valuable tools must be protected from pilferage and weather damage.

CURRENT SITUATION: The housing contractor is currently using storage space in buildings built in 1958. The present storage facilities are inadequate, inconvenient and hinder the performance of maintenance service. These storage structures are in an advanced state of deterioration and will not be habitable in the near future. High volume purchases of supplies and maintenance parts cannot be stored in the present wood storage facilities.

IMPACT IF NOT PROVIDED: Maintenance costs will continue to increase due to loss of expensive parts by pilfering and damage by exposure to the elements. Tools and maintenance machines will require more frequent

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION HOLLOMAN AFB, NEW MEXICO		
4. PROJECT TITLE CONSTRUCT FAMILY HOUSING MAINTENANCE FACILITY		5. PROJECT NUMBER KWRD860094

repair because of storage in an open yard where weather and rust cause rapid deterioration. Large supplies of commonly-used supplies and materials purchases cannot be made due to inadequate space.
ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION HOLLOMAN AFB, NEW MEXICO		
4. PROJECT TITLE CONSTRUCT FAMILY HOUSING MAINTENANCE FACILITY		5. PROJECT NUMBER KWRD860094

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 MAR 01
(b) Percent Complete as of Jan 90	35%
(c) Date 35% Designed	89 NOV 30
(d) Date Design Complete	90 APR 15
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	9
(b) All Other Design Costs	2
(c) Total	11
(d) Contract	11
(e) In-house	
(4) Construction Start	91 MAR

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION CHARLESTON AFB, SOUTH CAROLINA	4. PROJECT TITLE CONSTRUCT MFH SERVICE CENTER

5. PROGRAM ELEMENT 8.87.41	6. CATEGORY CODE 610-119	7. PROJECT NUMBER DKFX904037	8. PROJECT COST($000) 592

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
CONSTRUCT MFH SERVICE CENTER	LS			421
MANAGEMENT OFFICE	SF	2,800	83	(232)
MAINTENANCE FACILITY	SF	2,700	70	(189)
SUPPORTING FACILITIES				113
SITE IMPROVEMENTS/PAVEMENTS	LS			(30)
COMMUNICATIONS SUPPORT	LS			(12)
UTILITIES	LS			(30)
FIRE DETECTION SYSTEM	LS			(5)
SYSTEMS FURNITURE	LS			(36)
SUBTOTAL				534
CONTINGENCY (5%)				27
TOTAL CONTRACT COST				561
SUPERVISION, INSPECTION AND OVERHEAD (5.5%)				31
TOTAL REQUEST				592
AREA COST FACTOR 0.89				

10. Description of Proposed Construction: Reinforced concrete foundation and floor slab, masonry walls, sloped roof, all utilities and necessary support. Areas include administrative offices, reception area, latrines, storage and mechanical space. Maintenance shop areas include administrative space, service call desk, self-help supply store, bench stock area, storage space, equipment area and latrines.

11. REQUIREMENT: 5,400 SF ADEQUATE: 0 SUBSTANDARD: 5,046 SF

PROJECT: Construct a family housing management office and maintenance facility. (Current Mission).

REQUIREMENT: Provide an adequate facility for the family housing customer service, assistance, facilities management, and housing maintenance sections to service military families. Provides maintenance management, shop and storage space for the 13 man workforce to maintain the 977 family housing units.

CURRENT SITUATION: The family housing management office provides service to over 2300 families and unaccompanied personnel living off-base and manages the assignment, termination and maintenance of 977 family hosing units and 75 mobile home spaces. In FY 87 they assisted over 377 personnel in finding off-base housing. The existing family housing operations is located in two facilities separated one-half mile from each other. The MFH management office is sharing a building primarily used for transient family lodging. The offices were converted from dormitory style rooms and are not configured in a workable layout. This office is separate from the heart of the base family housing complex. The MFH maintenance shop is located in a temporary substandard facility constructed in 1952.

IMPACT IF NOT PROVIDED: The family housing management office would

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION CHARLESTON AFB, SOUTH CAROLINA		
4. PROJECT TITLE CONSTRUCT MFH SERVICE CENTER		5. PROJECT NUMBER DKFX904037

continue to occupy inadequate facilities and be inconvient to customers. ADDITIONAL: Project accomplishment would allow the current space used by the MFH management office to be converted back to much needed billeting space. This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION CHARLESTON AFB, SOUTH CAROLINA		
4. PROJECT TITLE CONSTRUCT MFH SERVICE CENTER		5. PROJECT NUMBER DKFX904037

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 APR 01
(b) Percent Complete as of Jan 90	35%
(c) Date 35% Designed	89 NOV 30
(d) Date Design Complete	90 JUL 15
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	18
(b) All Other Design Costs	6
(c) Total	24
(d) Contract	24
(e) In-house	
(4) Construction Start	91 MAY

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION MYRTLE BEACH AFB, SOUTH CAROLINA		4. PROJECT TITLE CONSTRUCT FAMILY HOUSING MANAGEMENT OFFICE	
5. PROGRAM ELEMENT 8.87.41	6. CATEGORY CODE 610-119	7. PROJECT NUMBER RDRD800019	8. PROJECT COST($000) 258

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
FAMILY HOUSING MANAGEMENT OFFICE	SF	2,200	81	178
SUPPORTING FACILITIES				55
SITE WORK	LS			(9)
PAVEMENTS	LS			(30)
WATER/SEWER	LS			(7)
ELECTRICAL	LS			(9)
SUBTOTAL				233
CONTINGENCY (5%)				12
TOTAL CONTRACT COST				245
SUPERVISION, INSPECTION AND OVERHEAD (5.5%)				13
TOTAL REQUEST				258
AREA COST FACTOR 0.87				

10. Description of Proposed Construction: Construct masonry building with slab on grade and reinforced concrete footing. Construction includes all utilities, site work, roads, walks, parking, and HVAC system.

11. REQUIREMENT: 2,200 SF ADEQUATE: 0 SUBSTANDARD: 2,177 SF

PROJECT: Construct Family Housing Management Office. (Current Mission)

REQUIREMENT: Project is required to provide an adequate family housing management facility for Myrtle Beach AFB. The housing management function is essential to the operation of base housing, performing such activities as managing operations and maintenance work and assigning new personnel to on-base housing. This facility is often one of the initial stops for newly assigned personnel and therefore it should provide an efficient and pleasant atmosphere for incoming personnel.

CURRENT SITUATION: The family houisng management office provides service to over 1800 families and unaccompanied personnel living off-base and manages the assignment, termination and maintenance of 800 family housing units and 65 mobile home spaces. In FY 87 they assisted over 500 personnel in finding off-base housing. Housing management personnel share the small facility with other unrelated functions. The facility does not provide adequate work space, forcing personnel and their many base customers to work in cramped, overcrowded conditions. The facility is not located in a prominent area of the base, making it inconvient for newly arrived personnel.

IMPACT IF NOT PROVIDED: If this project is not approved, the housing management personnel will continue operating from a facility which is in an inconvenient location for newly arriving families and which provides inadequate work space.

ADDITIONAL: This project meets the criteria/scope specified in Part II of

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION MYRTLE BEACH AFB, SOUTH CAROLINA		
4. PROJECT TITLE CONSTRUCT FAMILY HOUSING MANAGEMENT OFFICE		5. PROJECT NUMBER RDRD800019

Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION MYRTLE BEACH AFB, SOUTH CAROLINA		
4. PROJECT TITLE CONSTRUCT FAMILY HOUSING MANAGEMENT OFFICE		5. PROJECT NUMBER RDRD800019

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 MAR 01
(b) Percent Complete as of Jan 90	35%
(c) Date 35% Designed	89 NOV 30
(d) Date Design Complete	90 APR 30
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	8
(b) All Other Design Costs	3
(c) Total	11
(d) Contract	11
(e) In-house	
(4) Construction Start	91 APR

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION ELLSWORTH AFB, SOUTH DAKOTA	4. PROJECT TITLE CONSTRUCT FAMILY HOUSING MANAGEMENT OFFICE

5. PROGRAM ELEMENT 8.87.41	6. CATEGORY CODE 610-119	7. PROJECT NUMBER FXBM869007	8. PROJECT COST($000) 313

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
FAMILY HOUSING MANAGEMENT OFFICE	SF	2,330	88	205
SUPPORTING FACILITIES				78
UTILITIES	LS			(18)
SITE IMPROVEMENTS	LS			(18)
PAVEMENTS	LS			(26)
PREWIRING	LS			(16)
SUBTOTAL				283
CONTINGENCY (5%)				14
TOTAL CONTRACT COST				297
SUPERVISION, INSPECTION AND OVERHEAD (5.5%)				16
TOTAL REQUEST				313
AREA COST FACTOR 1.03				

10. Description of Proposed Construction: Construct a new military family housing office with reinforced concrete floor slabs and foundation, masonry bearing walls with brick veneer, steel roof system, and all necessary support facilities.

11. REQUIREMENT: 2,330 SF ADEQUATE: 0 SUBSTANDARD: 2,183 SF

PROJECT: Construct a military family housing office. (Current Mission)

REQUIREMENT: An adequate facility is required to serve military family housing customers and provide for more efficient housing management.

CURRENT SITUATION: The family housing management office provides service to over 3500 families and unaccompanied personnel living off-base and manges the assignment, termination and maintenance of 1884 family housing units. In FY 87 they assisted over 1390 personnel in finding off-base housing. The exisiting military family housing office is in a substandard 30-plus year old converted mess hall. The present office is not large enough and is poorly configured to provide adequate space for employees and proper atmosphere for customers. Housing referral counselors and clerks are located in the reception/display area. Thus personalized customer service can not be provided. Parking for customers is also inadequate. Further, the existing location is undesirable due to its lack of prominent location.

IMPACT IF NOT PROVIDED: Military family housing customers will continue to be served in a substandard, inadequate facility. Lack of semi-private service and counseling and difficulty in finding the office will continue.

ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION ELLSWORTH AFB, SOUTH DAKOTA		
4. PROJECT TITLE CONSTRUCT FAMILY HOUSING MANAGEMENT OFFICE		5. PROJECT NUMBER FXBM869007

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 MAR 01
(b) Percent Complete as of Jan 90	35%
(c) Date 35% Designed	89 NOV 30
(d) Date Design Complete	90 APR 01
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	8
(b) All Other Design Costs	3
(c) Total	11
(d) Contract	11
(e) In-house	
(4) Construction Start	91 JUN

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION ANDERSEN AFB, GUAM	4. PROJECT TITLE CONSTRUCT HOUSING SUPPLY & STORAGE FACILITY

5. PROGRAM ELEMENT 8.87.41	6. CATEGORY CODE 442-769	7. PROJECT NUMBER AJJY881105	8. PROJECT COST($000) 1,371

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
CONSTRUCT HOUSING SUPPLY & STORAGE FACILITY	SF	22,000	53	1,166
SUPPORTING FACILITIES				72
PAVING	LS			(30)
FIRE PROTECTION	LS			(17)
UTILITIES	LS			(25)
SUBTOTAL				1,238
CONTINGENCY (5%)				62
TOTAL CONTRACT COST				1,300
SUPERVISION, INSPECTION AND OVERHEAD (5.5%)				71
TOTAL REQUEST				1,371
AREA COST FACTOR 2.03				

10. Description of Proposed Construction: Construct a pre-engineered, high bay, modular metal structure. The new facility will consist of the following items: high efficiency light fixtures, a fire protection detection system, a new parking lot, a small office area, and air conditioning. The project includes all structural, electrical and mechanical systems required to construct a complete operational facility.

11. REQUIREMENT: 0 ADEQUATE: 0 SUBSTANDARD: 46,864 SF

PROJECT: Construct a new permanent housing supply warehouse. (Current Mission)

REQUIREMENT: A climatized warehouse facility is required to protect stored government furniture and equipment.

CURRENT SITUATION: The present housing supply warehouse was constructed in 1949, and has survived two major typhoons. The facility has weathered considerably over the years and is categorized as Condition Code 3. The facility is not readily accessible to the general base population since it is sited over 7 miles from the base. Substantial amounts of fuel are consumed by service furniture delivery vehicles as they traverse the route to and from the base several times daily. Excessive wear and rapid deterioration of housing supply furniture, particularly mattresses, are common since there is no climatic barrier to protect them.

IMPACT IF NOT PROVIDED: Use of the inadequate housing supply facility will result in the continual loss of Air Force resources: shortened service life of stored equipment and high fuel consumption of service vehicles.

ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION ANDERSEN AFB, GUAM		
4. PROJECT TITLE CONSTRUCT HOUSING SUPPLY & STORAGE FACILITY		5. PROJECT NUMBER AJJY881105

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	89 APR 01
(b) Percent Complete as of Jan 90	35%
(c) Date 35% Designed	89 NOV 30
(d) Date Design Complete	90 JUN 01
(2) Basis:	
(a) Standard or Definitive Design -	NO
(b) Where Design Was Most Recently Used -	N/A
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	69
(b) All Other Design Costs	19
(c) Total	88
(d) Contract	88
(e) In-house	
(4) Construction Start	91 MAR

b. Equipment associated with this project will be provided from other appropriations: N/A

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1991 BUDGET REQUEST

POST ACQUISITION CONSTRUCTION

Program (In Thousands)
FY 1991 Program $173,612
FY 1990 Program $173,349

Purpose and Scope

The Air Force operates over 141,000 family housing units. The average age of housing units in the Air Force inventory is over 30 years. Over 80,000 of these units require revitalizaion now. Many of these units require major expenditures to repair or replace deteriorated mechanical, electrical, or structural components, and to provide some of the modern amenities found in comparable community housing. The Post Acquisition Construction Program provides this needed revitalization. Each project also includes a significant amount of concurrent maintenance and repair (average per project is 68%). Energy conservation improvements are also included.

The Air Force is the acknowledged DoD leader in developing the "whole house" revitalization concept. Whole house is the combination of needed maintenance and repair together with improvements to bring the unit to contemporary standards. But now we are looking beyond the house to the entire housing area. The "whole neighborhood" concept is being developed and includes the development of neighborhood vehicular and pedestrian circulation concepts to consider siting, density, landscaping, parking, playgrounds, recreation area and utilities, in addition to the housing unit itself. To identify all our requirements, Housing Community Plans are being developed for each base using Advance Planning and Design funds.

Consistent with Authorization and Appropriation Committees' language in FY 90, the Air Force is seeking increased funding in this account to accelerate the rate at which aging facilities are revitalized. Consistent with Appropriation Committees' language in FY 85, the Air Force has gathered data on the post acquisition construction projects to detail past projects on these units and any future work being programmed within a three year period. This information is provided as a part of this submittal. Some of the overseas post acquisition construction projects exceed the $40,000 per unit cost limitation. These projects include total upgrade, maintenance and repair requirements essential to restoring badly deteriorated housing units to another 20 years of useful life.

Program Summary

Authorization is requested for:

(1) Various improvements to existing public quarters, as described on DD Form 1391, pages 710-734; and

(2) Appropriation of $173,612,000 to fund these projects.

NOTE: Projects within the program are within the statutory limitation of $40,000 per unit adjusted by area cost factor, except as identified by separate DD Form 1391.

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION VARIOUS AIR FORCE BASES	4. PROJECT TITLE POST ACQUISITION CONSTRUCTION

5. PROGRAM ELEMENT 8.87.42	6. CATEGORY CODE 711-000	7. PROJECT NUMBER XXXX9100PAIP	8. PROJECT COST($000) 173,612

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
POST ACQUISITION CONSTRUCTION				173,612
PROJECTS TO IMPROVE FAMILY HOUSING	UN	3,533	48,857	(172,612)
MINOR IMPROVEMENTS	LS			(1,000)
SUBTOTAL				173,612
TOTAL CONTRACT COST				173,612
TOTAL REQUEST				173,612

10. Description of Proposed Construction: Includes all work necessary to revitalize military family housing by providing: air conditioning, where authorized; modern functional layouts; soundproofing; and utility and site improvements. Energy conservation actions include new and additional insulation, storm windows, solar screens, and more efficient heating and cooling systems. (Continued on next pages.)

11. PROJECT: This request is for appropriation of $173.612 million to accomplish improvements in family housing units.
REQUIREMENT: To revitalize and improve the livability of older, obsolete family housing units, to conserve energy in these older housing units, and to bring utility systems up to current safety standards.
CURRENT SITUATION: The majority of these housing units were constructed since the late 1940's using various design and construction criteria, with different types of material, installed equipment, appliances, livability, and appearance. Many utility and structural systems were designed and constructed during years of plentiful, inexpensive energy resources. Insulation, storm windows, etc., not previously cost effective, are now wise investments. This FY 1991 program will prolong the useful life of many of our older, less modern units by enhancing livability, reducing operation costs and improving safety aspects.
ADDITIONAL: These projects meet the criteria/scope specified in Part II of Military Handbook 1190, 'Facility Planning and Design Guide' except as noted on the individual DD Form 1391s.

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION VARIOUS AIR FORCE BASES		
4. PROJECT TITLE POST AQUISITION CONSTRUCTION		5. PROJECT NUMBER N/A

10. Description of work to be accomplished

Location and Project	Current Working Estimate ($000)
UNITED STATES	
ALABAMA	
MAXWELL AFB	
IMPROVE FAMILY HOUSING (PHASE 4 OF 8)	1,998

PNQS914004

- Improve 35 Appropriated units (Prior FY50). Replace HVAC systems and exterior doors, repair existing bathrooms, provide additional storage, second bathrooms and separate laundry areas, upgrade kitchens, rearrange existing walls to provide better space utilization, construct new patios and privacy screens, improve parking facilities.
  (Separate DD Form 1391 attached)
- WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None
- WORK PROGRAMMED FOR NEXT THREE YEARS: Includes roofing and painting for a total of $175,500.

ALASKA	
EIELSON AFB	
IMPROVE FAMILY HOUSING	6,070

FTQW914001

- Convert (13) 8-plexes into (12) 4-plexes and (1) 3-plex. Work includes: alteration to provide integral single car garages, exterior siding, modernized kitchens and baths; adequately sized bedrooms & living/family rooms; replacing interior electrical wiring, heating and flooring; and removing asbestos. Provide playgrounds, parking and landscaping.
  (Separate DD Form 1391 attached)
- WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None
- WORK PROGRAMMED FOR NEXT THREE YEARS: None

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION VARIOUS AIR FORCE BASES		
4. PROJECT TITLE POST AQUISITION CONSTRUCTION		5. PROJECT NUMBER N/A

10. Description of work to be accomplished

Location and Project	Current Working Estimate ($000)
ALASKA (CONT)	
ELMENDORF AFB	
IMPROVE FAMILY HOUSING	4,804
FXSB914001	

- Convert 10 8-plexes into (10) 3 and 4-bedroom 4-plexes. Work includes: alteration to provide integral single car garages and utility rooms, modernized kitchens and baths; adequately sized bedrooms & living/family rooms; replacing interior electrical wiring, heating and flooring; and removing asbestos. Provide playgrounds, vehicle parking and landscaping. (Separate DD Form 1391 attached)
- WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None
- WORK PROGRAMMED FOR NEXT THREE YEARS: None

ARIZONA	
WILLIAMS AFB	
IMPROVE FAMILY HOUSING SITE WORK	1,164
YZJU912141	

- Construct curbs, gutters, and sidewalks in Wherry housing. Work includes sawcut and removal of existing asphalt pavement, excavating ground to accommodate the construction of curbs, gutters, and sidewalks, backfilling, grading, welded wire fabric, concrete, and broom finish.
- WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None
- WORK PROGRAMMED FOR NEXT THREE YEARS: None

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION VARIOUS AIR FORCE BASES		
4. PROJECT TITLE POST AQUISITION CONSTRUCTION		5. PROJECT NUMBER N/A

10. Description of work to be accomplished

Location and Project	Current Working Estimate ($000)
ARKANSAS	
EAKER AFB AFB	
IMPROVE CAPEHART HOUSING (PHASE 2 OF 5)	10,169
BWKR880004P2 - Improve 207 Capehart housing units. Work includes the upgrading of kitchen and bathroom areas, install ceiling fans, replace electrical and mechanical systems including duct system, and exterior doors. Adds second bathroom to 3-bedroom units, patios, privacy fences and landscaping. Seal existing heating and air conditioning duct system. (Separate DD Form 1391 attached) - WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None - WORK PROGRAMMED FOR NEXT THREE YEARS: None	
LITTLE ROCK AFB	
IMPROVE FAMILY HOUSING (PHASE 6 OF 8)	6,847
NKAK914032 - Improve 153 Capehart units. Renovate kitchens and bathrooms, reconfigure bedrooms, modify laundry and dining areas, add family rooms and second baths, modify patios; replace flooring, electrical wiring, and closet doors; repair ceiling and wall finishes. (Separate DD Form 1391 attached) - WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None - WORK PROGRAMMED FOR NEXT THREE YEARS: None	

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION VARIOUS AIR FORCE BASES		
4. PROJECT TITLE POST AQUISITION CONSTRUCTION		5. PROJECT NUMBER N/A

10. Description of work to be accomplished

Location and Project	Current Working Estimate ($000)
CALIFORNIA	
EDWARDS AFB IMPROVE WHERRY HOUSING (PHASE 3 OF 5)	2,329

FSPM904507P4

- Improve 54 Wherry units. Replace windows, wood trim and fascia, exterior wooden storage sheds, and bathtubs. Paint exteriors and color coat stucco. Construct gable roofs to replace the existing flat roofs. Relocate existing roof-mounted evaporative coolers. Install lawn sprinklers in common areas, and install dead bolts. Provide add for units with greater than 100SF deficiency.
- WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None
- WORK PROGRAMMED FOR NEXT THREE YEARS: None

MCCLELLAN AFB IMPROVE WHERRY HOUSING (PHASE 1 OF 4)	1,062

PRJY893025P2

- Improve 12 Wherry units. Upgrade bathrooms, improve storage, repair kitchen/bath cabinets. Replace posts, store room door and lighting fixtures. Install double-pane windows, improve drainage, install sidewalks and utility sheds. Add half-bath with shower to undersized units. Remove wall between living room and dining area, replace roofs,enlarge concrete deck & install fence.
  (Separate DD Form 1391 attached)
- WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None
- WORK PROGRAMMED FOR NEXT THREE YEARS: None

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION VARIOUS AIR FORCE BASES		
4. PROJECT TITLE POST AQUISITION CONSTRUCTION		5. PROJECT NUMBER N/A

10. Description of work to be accomplished

Location and Project	Current Working Estimate ($000)
CALIFORNIA (CONT)	
TRAVIS AFB	
IMPROVE MIL FAM HSG - PH 4	8,060
XDAT914001	
- Improve 144 Wherry units. Renovate kitchens and baths, construct patios with privacy fences, add storage sheds, add family rooms, install soundproofing, upgrade exterior finishes, add half-baths; replace flooring, wiring, windows, roofs, evaporative coolers and upgrade heating systems; reconfigure interiors, and relocate laundry areas. (Separate DD Form 1391 attached)	
- WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None	
- WORK PROGRAMMED FOR NEXT THREE YEARS: None	
COLORADO	
PETERSON AFB	
IMPROVE FAMILY HOUSING (PHASE 4 OF 4)	1,722
TDKA890017P4	
- Improve 35 Appropriated housing units (FY50-69). Work will include alteration of space, improvement and repair of kitchens, bathrooms, mechanical, electrical and utility systems, building structure, components and equipment, yards, walks, driveways, windows, doors, floors, lighting, garage/carports, surfaces and finishes. (Separate DD Form 1391 attached)	
- WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None	
- WORK PROGRAMMED FOR NEXT THREE YEARS: None	

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION VARIOUS AIR FORCE BASES		
4. PROJECT TITLE POST AQUISITION CONSTRUCTION		5. PROJECT NUMBER N/A

10. Description of work to be accomplished

Location and Project	Current Working Estimate ($000)
COLORADO (CONT)	
USAF ACADEMY	
IMPROVE CAPEHART HOUSING	1,840
XQPZ900035	

- Improve 52 Capehart units. Renovate kitchens and bathrooms and add family rooms, bathrooms, privacy fencing and trash enclosures. Relocate washer and dryer space to main level and construct patios next to the family room/kitchen. Functional layouts will be modified and net square feet (NSF) increased as required. Repair interior and exterior features as required. Provide landscaping.
- WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: Included replacing about 15% of the furnaces as needed ($1,200/unit) and repairing roofs and gutters on 9% of the units (average cost is $3,000/unit).
- WORK PROGRAMMED FOR NEXT THREE YEARS: No work is programmed for the next three years in these units, although some roofs may be identified at a later date.

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION VARIOUS AIR FORCE BASES		
4. PROJECT TITLE POST AQUISITION CONSTRUCTION		5. PROJECT NUMBER N/A

10. Description of work to be accomplished

Location and Project	Current Working Estimate ($000)
DISTRICT OF COLUMBIA	
BOLLING AFB	
IMPROVE FAMILY HOUSING (PHASE 4 OF 4)	2,579
BXUR900457A	

- Improve 64 Appropriated units (FY50-69). Relocate/reconfigure kitchens, baths, living, dining and bedrooms. Provide family/dining areas, master baths. Upgrade finishes, fixtures and utility systems. Replace hot water heaters, laundry/kitchen floors, doors, windows, roofs/awnings. Replace gutters and downspouts as required. Provide decks and landscape. Repair patios and fences.
  (Separate DD Form 1391 attached)
- WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: Included storage sheds, privacy fences, roofs, downspouts and gutters for a total of $329,000 on 64 units.
- WORK PROGRAMMED FOR NEXT THREE YEARS: None

Location and Project	Current Working Estimate ($000)
FLORIDA	
EGLIN AFB	
IMPROVE CAPEHART HOUSING	1,987
FTFA910004	

- Improve 54 Capehart units. Replace doors, windows, kitchen cabinets & countertops, closet shelving, bathroom accesories & fixtures, thermostats, registers, kitchen exhaust fans & electrical components. Provide exterior finish & insulation. Construct patios & storage. Install sliding glass doors, gutters/downspouts, garbage racks, heat pumps, disposals & dishwashers.
  (Separate DD Form 1391 attached)
- WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None
- WORK PROGRAMMED FOR NEXT THREE YEARS: None

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION VARIOUS AIR FORCE BASES		
4. PROJECT TITLE POST AQUISITION CONSTRUCTION		5. PROJECT NUMBER N/A

10. Description of work to be accomplished

Location and Project	Current Working Estimate ($000)
FLORIDA (CONT)	
MACDILL AFB	
IMPROVE WHERRY HOUSING	2,456

NVZR900012
- Improve 44 Wherry four-plex housing units. Construct additions, including 180 SF family room and 40 SF bathroom. Upgrade kitchen and bathroom cabinets, fixtures and finishes. Upgrade electrical and HVAC systems. Enlarge patio; relocate utility room; convert front stairwell from interior to exterior creating entry foyer. Sandblast and paint exteriors. (Separate DD Form 1391 attached)
- WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None
- WORK PROGRAMMED FOR NEXT THREE YEARS: None

PATRICK AFB	
IMPROVE CAPEHART HOUSING	5,000

SXHT900502
- Improve 266 Capehart units. Repair roofs to include installation of gable roof trusses, fiberglass shingles and replacement of deteriorated wood components; install weatherproof, exterior siding, repair screen porches, infiltration reduction; repair/replacement of central air conditioning systems; and construct additions to correct size deficiency.
- WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None
- WORK PROGRAMMED FOR NEXT THREE YEARS: None

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION VARIOUS AIR FORCE BASES		
4. PROJECT TITLE POST AQUISITION CONSTRUCTION		5. PROJECT NUMBER N/A

10. Description of work to be accomplished

Location and Project	Current Working Estimate ($000)
GEORGIA	
ROBINS AFB	
IMPROVE FAMILY HOUSING (PHASE 2 OF 2)	1,710
UHHZ860008P2	

- Improve 40 Appropriated units (FY70 & After). Add parking, outside storage, landscape, install storm windows and doors, install playground equipment, correct drainage problem, install meter bases. Replace range hoods, kitchen cabinets, countertops, sinks, add shelves over wash machine. Replace bath fixtures, exterior siding, install sheetrock, existing storage rooms and add privacy screens. (Separate DD Form 1391 attached)
- WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None
- WORK PROGRAMMED FOR NEXT THREE YEARS: None

IDAHO	
MOUNTAIN HOME AFB	
IMPROVE FAMILY HOUSING (PHASE 2 OF 2)	3,698
QYZH890002	

- Improve 110 Relocatable housing units. Upgrade kitchens and baths, to include cabinets, fixtures, wall coverings, and countertops. Replace sheet rock, insulation, floor tile, lighting, climatic controls and appliances. Ceilings will be replaced, and a pantry and breakfast bar added. Exterior improvements include driveways, patios, carports and 10' by 10' family room addition.
- WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: Consisted of street repair for a total of $300,000.
- WORK PROGRAMMED FOR NEXT THREE YEARS: None

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION VARIOUS AIR FORCE BASES		
4. PROJECT TITLE POST AQUISITION CONSTRUCTION		5. PROJECT NUMBER N/A

10. Description of work to be accomplished

Location and Project	Current Working Estimate ($000)
MICHIGAN	
K.I. SAWYER AFB	
IMPROVE CAPEHART HOUSING (PHASE 6 OF 6) LWRC840016P6 - Improves 108 Capehart units. Work includes kitchen and bathroom upgrades, siding replacement, patio privacy screens, smoke detectors, installation of one-half baths in some units, sidewalk construction, landscaping, playgrounds, upgrades kitchens, bathrooms, adds electrical circuits, improves interiors. - WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None - WORK PROGRAMMED FOR NEXT THREE YEARS: None	2,819
NEVADA	
NELLIS AFB	
CONVERT SENIOR OFFICERS QUARTERS RKMF914005 - Convert 15 duplex units to single units in Manch II housing area. Renovate kitchen/bathrooms, replace doors/windows, insulate walls/ceilings, and relocate washer/dryer area. Reconfigure interior walls, apply stucco to exterior, replace roof, and provide space for atrium access. Replace heating, ventilation, and A/C system, electric lines, plumbing systems and floor slab/foundation. (Separate DD Form 1391 attached) - WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None - WORK PROGRAMMED FOR NEXT THREE YEARS: None	1,583

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION VARIOUS AIR FORCE BASES		
4. PROJECT TITLE POST AQUISITION CONSTRUCTION		5. PROJECT NUMBER N/A

10. Description of work to be accomplished

Location and Project	Current Working Estimate ($000)
NEW MEXICO	
CANNON AFB	
IMPROVE FAMILY HOUSING (PHASE 1 OF 3)	4,641

CZQZ870014

- Improve 128 Appropriated housing units (FY50-69). Renovate kitchen area, replace lights and interior wiring, renovate and enlarge bathrooms, fur existing concrete block walls and install new gypsum board. Replace interior doors and frames, replace sliding closet doors, install new ceiling with acoustical finish. Relocate laundry facilities and replace floor tile throughout.
- WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: Included new exterior finishes, new sloped roofs, front entrances, windows and exterior painting for a total of $1,200,000.
- WORK PROGRAMMED FOR NEXT THREE YEARS: None

HOLLOMAN AFB	
IMPROVE FAMILY HOUSING (PHASE 1 OF 3)	5,115

KWRD913006

- Improve 130 Appropriated units (FY70 & After). Replace windows, roofing shingles, soffit/fascia, gutters and downspouts, sliding glass doors and wood doors. Enlarge patios, install patio cover and screens. Repair and modernize kitchens and baths. Provide air conditioning duct work, new water heater and install thermostats.
- WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: Included a roofing project for a total cost of $329,800.
- WORK PROGRAMMED FOR NEXT THREE YEARS: None

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION VARIOUS AIR FORCE BASES		
4. PROJECT TITLE POST AQUISITION CONSTRUCTION		5. PROJECT NUMBER N/A

10. Description of work to be accomplished

Location and Project	Current Working Estimate ($000)
NEW YORK PLATTSBURGH AFB IMPROVE CAPEHART HOUSING (PHASE 2 OF 8) THWA880038P2	15,640

- Improve 224 Capehart family housing units. Work includes upgrading kitchen and bath areas, heat and electrical systems. Work further consists of asbestos removal, landscaping, providing additional square footage, upgrading utility distribution systems, and upgrading the energy conservation features of the houses. (Separate DD Form 1391 attached)
- WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: Replace floor tile, cost $116,900 and replace hazardous electrical fixture in garages, cost $22,400.
- WORK PROGRAMMED FOR NEXT THREE YEARS: None

Location and Project	Current Working Estimate ($000)
OHIO WRIGHT-PATTERSON AFB IMPROVE WHERRY HOUSING (PHASE 4 OF 8) ZHTV820016P4	2,434

- Improve 89 Wherry units. Retrofit flat built-up roof systems of housing units and garages to a new sloped roof system. Includes new trusses, sheathing, roofing and miscellaneous flashing. Improve front entrances by replacing flat canopy with wider sloped type and construct concrete entry court with privacy screening. Add patios and privacy screening to rear of buildings.
- WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: Included exterior painting, replacing closet doors, repairing bathroom window casings and repairs to water service lines for an average of $2,704 per unit.
- WORK PROGRAMMED FOR NEXT THREE YEARS: None

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION VARIOUS AIR FORCE BASES		
4. PROJECT TITLE POST AQUISITION CONSTRUCTION		5. PROJECT NUMBER N/A

10. Description of work to be accomplished

Location and Project	Current Working Estimate ($000)
OKLAHOMA	
TINKER AFB	
IMPROVE FAMILY HOUSING INSTALL GUTTERS	424
WWYK870199	
- Improvement of 200 Appropriated units (FY70 & After). Work includes roof mounted gutters, drains, splash blocks, and ground run-off structures. - WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None - WORK PROGRAMMED FOR NEXT THREE YEARS: None	
SOUTH CAROLINA	
CHARLESTON AFB	
IMPROVE FAMILY HOUSING (PHASE 3 OF 6)	8,389
DKFX904036	
- Improve 180 Capehart units. Add family rooms and baths; modify laundry room; construct trash screens; renovate kitchens and bathrooms; upgrade utilities; replace windows, roofs, lights, closet doors, flooring, and HVAC systems; Install insulation; reconfigure interiors; repair ceiling and wall finishes. (Separate DD Form 1391 attached) - WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None - WORK PROGRAMMED FOR NEXT THREE YEARS: None	

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION VARIOUS AIR FORCE BASES		
4. PROJECT TITLE POST AQUISITION CONSTRUCTION		5. PROJECT NUMBER N/A

10. Description of work to be accomplished

Location and Project	Current Working Estimate ($000)
SOUTH CAROLINA (CONT)	
MYRTLE BEACH AFB	
IMPROVE CAPEHART HOUSING (PHASE 2 OF 6)	6,459
SHAW AFB	
IMPROVE FAMILY HOUSING (PHASE 3 OF 4)	3,011

SOUTH CAROLINA (CONT)

MYRTLE BEACH AFB
IMPROVE CAPEHART HOUSING (PHASE 2 OF 6) 6,459
RDRD900008

- Improve 130 Capehart housing units. Construct additions to provide family rooms and renovate kitchens and bathrooms. Upgrade electrical system and replace vinyl floor covering and exterior doors. Upgrade HVAC system and relocate washer/dryer connections to utility room. Paint interior of quarters. Repair/replace roofs as needed. Construct patios, privacy fencing and outside storage. (Separate DD Form 1391 attached)
- WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: Included replacement of windows in 650 units at a cost of $2.1 million, maintaining the exterior paint on 520 units at a cost of $400,000 and repairing the roofs on 150 units for $900,000.
- WORK PROGRAMMED FOR NEXT THREE YEARS: None

SHAW AFB
IMPROVE FAMILY HOUSING (PHASE 3 OF 4) 3,011
VLSB890003

- Improve 64 Appropriated units (FY70 & After). Renew kitchen and baths, extend roof, siding, storm doors and windows, replace air conditioning system and light fixtures, insulate attics, walls and water piping. (Separate DD Form 1391 attached)
- WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None
- WORK PROGRAMMED FOR NEXT THREE YEARS: None

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION VARIOUS AIR FORCE BASES		
4. PROJECT TITLE POST AQUISITION CONSTRUCTION		5. PROJECT NUMBER N/A

10. Description of work to be accomplished

Location and Project	Current Working Estimate ($000)
TEXAS	
BERGSTROM AFB	
IMPROVE FAMILY HOUSING	1,729
BJHZ907001	

- Improve 46 Appropriated housing units (FY70 & After). Add outside storage, patio covers, privacy fences; add attic insulation, ceiling fans; paint exterior and interior; replace vinyl faced siding; improve/refurbish baths; replace aluminum wiring for 34 airmen units; renovate kitchen/breakfast area and install energy efficient windows in 12 SOQs and enlarge carports at 11 SOQs.
  (Separate DD Form 1391 attached)
- WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None
- WORK PROGRAMMED FOR NEXT THREE YEARS: None

CARSWELL AFB	
IMPROVE FAMILY HOUSING ROADS & DRAINAGE	710
DDPF840048	

- Provides all material, equipment, and labor necessary to install new curbs and gutters, new storm drainage pipes, repair roadway pavement and related items in the Row and Flattop Military Family Housing areas.
- WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None
- WORK PROGRAMMED FOR NEXT THREE YEARS: None

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION VARIOUS AIR FORCE BASES		
4. PROJECT TITLE POST AQUISITION CONSTRUCTION		5. PROJECT NUMBER N/A

10. Description of work to be accomplished

Location and Project	Current Working Estimate ($000)
TEXAS (CONT)	
CARSWELL AFB	
IMPROVE FAMILY HOUSING MANAGEMENT OFFICE	151
DDPF888001	
KELLY AFB	
IMPROVE WHERRY HOUSING (PHASE 4 OF 5)	2,301
MBPB910498	

TEXAS (CONT)

CARSWELL AFB
IMPROVE FAMILY HOUSING MANAGEMENT OFFICE — 151
DDPF888001

- Improve the military family housing management office. Add a 678 SF addition to the existing facilities. Alter and upgrade the existing office space, upgrade HVAC system, and construct parking lot for customers.
- WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None
- WORK PROGRAMMED FOR NEXT THREE YEARS: None

KELLY AFB
IMPROVE WHERRY HOUSING (PHASE 4 OF 5) — 2,301
MBPB910498

- Improve 37 Wherry units. Renovate kitchens and bathrooms, replace electrical system, upgrade HVAC, install new interior walls, replace roofing, upgrade storage areas, provide new patios/decks and porches. Add front addition to provide private entrance to each unit, add ext trim, provide energy conservation items (heat pumps, insulation, DHW heaters). Install playground equip.
  (Separate DD Form 1391 attached)
- WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None
- WORK PROGRAMMED FOR NEXT THREE YEARS: None

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION VARIOUS AIR FORCE BASES		
4. PROJECT TITLE POST AQUISITION CONSTRUCTION		5. PROJECT NUMBER N/A

10. Description of work to be accomplished

Location and Project	Current Working Estimate ($000)
TEXAS (CONT)	
LAUGHLIN AFB IMPROVE CAPEHART HOUSING (PHASE 1 OF 4) MXDP917000	5,427
SHEPPARD AFB IMPROVE CAPEHART HOUSING (PHASE 1 OF 3) VNVP900040	8,133

Laughlin AFB (MXDP917000):

- Improve 140 Capehart units. Renovate kitchen/baths, correct floor plan/unit layout deficiencies, provide second bath as required, upgrade electrical/plumbing/HVAC systems, replace doors/windows with energy efficient units, provide patio with cover/privacy fence/storage shed, upgrade exterior/carports, upgrade/paint interior, repair termite damage, and landscape as required.
  (Separate DD Form 1391 attached)
- WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: Included the replacement of roofs and repainting exteriors for a total of $780,000.
- WORK PROGRAMMED FOR NEXT THREE YEARS: None

Sheppard AFB (VNVP900040):

- Improve 197 Capehart units. Renovate kitchen/baths, upgrade electrical/plumbing/HVAC systems, construct entry with coat closet, provide second bath, enlarge master bedroom closet, provide patio with privacy fence/storage shed, upgrade exterior, correct floor plan/unit laycut deficiencies, provide family room, upgrade/paint interior, and landscape as required.
  (Separate DD Form 1391 attached)
- WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None
- WORK PROGRAMMED FOR NEXT THREE YEARS: None

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION VARIOUS AIR FORCE BASES		
4. PROJECT TITLE POST AQUISITION CONSTRUCTION		5. PROJECT NUMBER N/A

10. Description of work to be accomplished

Location and Project	Current Working Estimate ($000)
UTAH	
HILL AFB	
IMPROVE FAMILY HOUSING	84
KRSM904001	
- Improve 4 Appropriated units (Prior FY50). Provide independent heating system including gas-fired boiler, circulator pumps, a steam pit, piping and radiators. Replace windows, repair walls and upstairs floors. Replace interior lighting. Provide new patio and landscape units. (Separate DD Form 1391 attached)	
- WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None	
- WORK PROGRAMMED FOR NEXT THREE YEARS: None	
WASHINGTON	
FAIRCHILD AFB	
IMPROVE WHERRY HOUSING (PHASE 3 OF 5)	11,559
GJKZ830023P3	
- Improve 202 Wherry units. Provide a second bathroom to 3-bedroom units. Enclose basement stairs, install dishwashers, ceiling/bathroom fans, prewire telephones. Install showers in some units, patios/privacy screens. Insulate, replace doors, windows, frames as required. Repair roofs, structural framing and siding. Provide off-street parking. Increase net area to maximum authorized. (Separate DD Form 1391 attached)	
- WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None	
- WORK PROGRAMMED FOR NEXT THREE YEARS: None	

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION VARIOUS AIR FORCE BASES		
4. PROJECT TITLE POST AQUISITION CONSTRUCTION		5. PROJECT NUMBER N/A

10. Description of work to be accomplished

Location and Project	Current Working Estimate ($000)
OVERSEAS	
GERMANY	
RAMSTEIN AB	
IMPROVE GENERAL OFFICER QUARTERS	124
IMPROVE FAMILY HOUSING	2,085

OVERSEAS

GERMANY

RAMSTEIN AB
IMPROVE GENERAL OFFICER QUARTERS — 124
TYFR869000A

- Improve one Deutschmark family housing unit (General Officer Quarters). Build a 116 SF addition to the kitchen. Replace kitchen appliances, cabinets, and fixtures. Repair roof, including the garage and terrace areas. Construct enclosed patio. (Separate DD Form 1391 attached)
- WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: FY88: Roof and entrance gate repairs, and grounds maintenance for a total of $11,000.
- WORK PROGRAMMED FOR NEXT THREE YEARS: None

IMPROVE FAMILY HOUSING — 2,085
TYFR904002

- Improve 54 Deutschmark family housing units. Renovate kitchen, replace closets, cabinets, doors, water, sewage & heat lines, electrical system. Provide 110V outlets. Install dishwashers, dryers, washers, exhaust hoods. Replace roofs. (Separate DD Form 1391 attached)
- WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None
- WORK PROGRAMMED FOR NEXT THREE YEARS: None

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION VARIOUS AIR FORCE BASES		
4. PROJECT TITLE POST AQUISITION CONSTRUCTION		5. PROJECT NUMBER N/A

10. Description of work to be accomplished

Location and Project	Current Working Estimate ($000)
GERMANY (CONT)	
RAMSTEIN AB	
IMPROVE FAMILY HOUSING	3,440

TYFR914002
- Improve 90 Deutschmark family housing units. Renovate kitchen, replace closets, cabinets, doors; replace water, sewage, and heat lines, electrical system. Provide 110V outlets. Install dishwashers, dryers, washers, exhaust hoods. Replace roofs. (Separate DD Form 1391 attached)
- WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: Included the replacement of windows and exterior siding for a total of $232,000.
- WORK PROGRAMMED FOR NEXT THREE YEARS: None

JAPAN	
KADENA AB	
IMPROVE FAMILY HOUSING	6,208

EVKP906482
- Improve 75 Appropriated units (FY50-69). Renovate kitchens/bathrooms, install garbage disposals, dishwashers, replace interior electrical wiring/water lines, flooring, exterior service lines, replace windows, repair roofs, upgrade or install HVAC systems, paint interior/exterior masonry walls and woodwork. Construct storage sheds, provide landscaping, remove asbestos materials. (Separate DD Form 1391 attached)
- WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None
- WORK PROGRAMMED FOR NEXT THREE YEARS: None

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION VARIOUS AIR FORCE BASES		
4. PROJECT TITLE POST AQUISITION CONSTRUCTION		5. PROJECT NUMBER N/A

10. Description of work to be accomplished

Location and Project	Current Working Estimate ($000)
JAPAN (CONT) KADENA AB IMPROVE FAMILY HOUSING EVKP916001 - Improve 98 Appropriated units (FY50-69). Renovate kitchen/bathrooms; install garbage disposals, dishwashers, replace electrical wiring, windows, flooring, interior water lines and exterior service lines; upgrade or install central HVAC systems; repair roofs, paint interior/exterior masonry walls and woodwork; Construct storage sheds; provide landscaping; remove asbestos materials. (Separate DD Form 1391 attached) - WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None - WORK PROGRAMMED FOR NEXT THREE YEARS: None	6,028
IMPROVE FAMILY HOUSING LXEZ916000 - Improve 600 Yen units. Provide dishwashers, garbage disposals, smoke detectors, and venetian blinds for units being constructed by the Government of Japan (GOJ) for the United States military. - WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None - WORK PROGRAMMED FOR NEXT THREE YEARS: None	479

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION VARIOUS AIR FORCE BASES		
4. PROJECT TITLE POST AQUISITION CONSTRUCTION		5. PROJECT NUMBER N/A

10. Description of work to be accomplished

Location and Project	Current Working Estimate ($000)
SPAIN MORON STB IMPROVE FAMILY HOUSING QUUG904001	2,107

- Improve 36 Moron family housing units. Renovate/upgrade kitchens, dining, bathrooms, bedrooms, laundry, entry ways, plumbing and interior electrical utilities. Install air conditioning; install second bathroom. Replace windows; install ceilings; replace floor covering; enlarge patios; construct storage areas; install fence.
  (Separate DD Form 1391 attached)
- WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None
- WORK PROGRAMMED FOR NEXT THREE YEARS: None

Location and Project	Current Working Estimate ($000)
UNITED KINGDOM RAF CHICKSANDS IMPROVE FAMILY HOUSING (PHASE 2 OF 12) DPWD914001	2,647

- Improve 34 military family housing units. Add utility and bath areas. Upgrade kitchens and existing bathrooms. Renovate interiors throughout. Repair exterior siding. Provide additional cabinets, counters and closet space. Renovate heating and electrical systems. Repair doors. Add living room extension to one SGO quarters.
  (Separate DD Form 1391 attached)
- WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None
- WORK PROGRAMMED FOR NEXT THREE YEARS: None

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION VARIOUS AIR FORCE BASES		
4. PROJECT TITLE POST AQUISITION CONSTRUCTION		5. PROJECT NUMBER N/A

10. Description of work to be accomplished

Location and Project	Current Working Estimate ($000)
UNITED KINGDOM (CONT)	
RAF KEMBLE	
IMPROVE FAMILY HOUSING	120
UHHZ870615	

- Improve 2 family housing units. Alter heat and electrical systems. Construct/remove internal walls, replace windows with double paned windows, replace worn interior/exterior doors. Upgrade kitchen and baths. Provide half bath on the first floor and 3/4 bath on second floor. (Separate DD Form 1391 attached)
- WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None
- WORK PROGRAMMED FOR NEXT THREE YEARS: None

RAF LAKENHEATH	
IMPROVE FAMILY HOUSING	892
MSET900002	

- Improve 10 family housing units. Enlarge patio. Refinish interior, including kitchen and bath. Replace doors, windows. Upgrade electrical, heating systems. Increase insulation. Repair exterior. Improve floor plan, install stove, exhaust hood, dishwasher and LPG (low pressure gas) system.
  (Separate DD Form 1391 attached)
- WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None
- WORK PROGRAMMED FOR NEXT THREE YEARS: None

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION VARIOUS AIR FORCE BASES		
4. PROJECT TITLE POST AQUISITION CONSTRUCTION		5. PROJECT NUMBER N/A

10. Description of work to be accomplished

Location and Project	Current Working Estimate ($000)
UNITED KINGDOM (CONT)	
RAF LAKENHEATH	
IMPROVE FAMILY HOUSING MSET900003 - Improve 60 military family housing units. Add half-bath, laundry room, storage room, and exterior sheds. Renovate kitchen and bath. Replace windows, doors, and frames. Repair and upgrade utilities. Repair exterior, repaint. (Separate DD Form 1391 attached) - WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None - WORK PROGRAMMED FOR NEXT THREE YEARS: None	2,985
IMPROVE FAMILY HOUSING ADD PARKING MSET900004 - Improve military family housing area. Construct 22 parking areas throughout the base family housing area. Work includes removal of sidewalks, curbs and gutters to accomodate the construction of new pavement, sidewalks, and fences. - WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None - WORK PROGRAMMED FOR NEXT THREE YEARS: None	453

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION VARIOUS AIR FORCE BASES		
4. PROJECT TITLE POST AQUISITION CONSTRUCTION		5. PROJECT NUMBER N/A

10. Description of work to be accomplished

Location and Project	Current Working Estimate ($000)
UNITED KINGDOM (CONT)	
RAF LAKENHEATH	
IMPROVE FAMILY HOUSING	940
MSET900007	

- Improve 14 family housing units. Add one bedroom with master bath, laundry room, entryway, storage, and half-bath. Improve existing floorplan. Enlarge patio, install dishwasher, stove, garbage disposal, and range hood. Replace floor tiles, paint, replace cabinets. Replace bathtub and water closet, exhaust fan, doors and frames, windows. Upgrade utilities.
  (Separate DD Form 1391 attached)
- WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None
- WORK PROGRAMMED FOR NEXT THREE YEARS: None

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1991 BUDGET REQUEST

POST ACQUISITION CONSTRUCTION PROJECTS (over $40,000 per unit)

A separate DD Form 1391 follows for each Post Acquisition Construction project which is over $40,000 per unit (multiplied by the Area Cost Factor):

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION MAXWELL AFB, ALABAMA	4. PROJECT TITLE IMPROVE FAMILY HOUSING (PHASE 4 OF 8)

5. PROGRAM ELEMENT 8.87.42	6. CATEGORY CODE 711-144	7. PROJECT NUMBER PNOS914004	8. PROJECT COST($000) 1,998

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
IMPROVE FAMILY HOUSING	UN	35	48,229	1,688
SUPPORTING FACILITIES				160
LANDSCAPING/CONSTRUCT PATIOS	LS			(95)
WIDEN STREETS	LS			(65)
SUBTOTAL				1,848
CONTINGENCY (5%)				92
TOTAL CONTRACT COST				1,940
SUPERVISION, INSPECTION AND OVERHEAD (3%)				58
TOTAL REQUEST				1,998
MOST EXPENSIVE UNIT $53,700				
AREA COST FACTOR 0.79				

10. Description of Proposed Construction: Improve 35 Appropriated units (Prior FY50). Replace HVAC systems and exterior doors, repair existing bathrooms, provide additional storage, second bathrooms and separate laundry areas, upgrade kitchens, rearrange existing walls to provide better space utilization, construct new patios and privacy screens, improve parking facilities.

11. PROJECT: Provides for improvements and repairs to 35 units (12 senior NCO and 23 junior NCO quarters).

REQUIREMENT: This project is required to provide adequate quarters for military members and their families assigned to this installation. It is the fourth of an eight-phase program which will renovate a total of 282 units. (Phase 1 is programed for FY 88, phase 2 is programed for FY 89, phase 3 is programed for FY 90, phase 5 through phase 8 are programed FY 93 through FY 98.) In addition to improvements to dwelling units, this project provides on-street parking and backyard patio areas. Backyard patio areas are required to give residents a private outside area and improve the quarters' aesthetic qualities. Additional parking is required due to elimination of parking at the rear of the quarters.

CURRENT SITUATION: These units were constructed in the 1930's. They fall short of current housing standards in many areas. They are poorly configured, have no private areas for outside entertainment and their interiors present a poor appearance. The HVAC systems need replacement due to their age and nonavailability of repair parts.

IMPACT IF NOT PROVIDED: Air Force members and their families would continue to be housed in unsatisfactory conditions, affecting morale and retention of quality personnel.

WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None

DD FORM 1391, DEC 76 Previous editions are obsolete.

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION MAXWELL AFB, ALABAMA		
4. PROJECT TITLE IMPROVE FAMILY HOUSING (PHASE 4 OF 8)		5. PROJECT NUMBER PNOS914004

WORK PROGRAMMED FOR NEXT THREE YEARS: Includes roofing and painting for a total of $175,500.

ADDITIONAL: An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, revitalization was found to be the most cost efficient over the life of the project. This project meets the criteria/scope specified in Part II of Military Handbook 1190, 'Facility Planning and Design Guide'.

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION EIELSON AFB, ALASKA	4. PROJECT TITLE IMPROVE FAMILY HOUSING

5. PROGRAM ELEMENT 8.87.42	6. CATEGORY CODE 711-143	7. PROJECT NUMBER FTOW914001	8. PROJECT COST($000) 6,070

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
IMPROVE FAMILY HOUSING	UN	51	95,902	4,891
SUPPORTING FACILITIES				721
PLAYGROUNDS	EA	2	16,000	(32)
AREA LANDSCAPING	LS			(68)
SIDEWALKS	SF	450	15	(7)
ASBESTOS REMOVAL	UN	55	10,454	(575)
DEMOLITION	LS			(39)
SUBTOTAL				5,612
CONTINGENCY (5%)				281
TOTAL CONTRACT COST				5,893
SUPERVISION, INSPECTION AND OVERHEAD (3%)				177
TOTAL REQUEST				6,070
MOST EXPENSIVE UNIT $111,157				
AREA COST FACTOR 2.06				

10. Description of Proposed Construction: Convert (13) 8-plexes into (12) 4-plexes and (1) 3-plex. Work includes: alteration to provide integral single car garages, exterior siding, modernized kitchens and baths; adequately sized bedrooms & living/family rooms; replacing interior electrical wiring, heating and flooring; and removing asbestos. Provide playgrounds, parking and landscaping.

11. PROJECT: Provides for improvement and repairs to 51 Appropriated (FY50-69) military family housing units.

REQUIREMENT: Project is required to provide upgraded MFH quarters which meet current Air Force standards of size, energy conservation, appearance, physical comfort and maintainability.

CURRENT SITUATION: These units were constructed in 1962 and have received no major renovations. The existing bathroom fixtures are deteriorated, require constant maintenance and repair, and need to be replaced. The units do not have bathrooms on the first floor. The kitchens do not provide adequate storage, cabinet space or countertop area and do not have a functional layout. Bedrooms are undersized. The existing steam heating systems are inefficient and require excessive maintenance to ensure comfortable temperatures. Many of the steam heat pipes are exposed and all contain asbestos. The electrical system in all units is deteriorated and a fire hazard. Existing insulation and vapor barriers are substandard. Party walls contain no soundproofing. Playgrounds, vehicle parking areas and landscaping are inadequate. In the 8-plex area, this results in a generally poor outside appearance and living environment, which is compounded by the extreme congestion caused by the closely spaced 8-family units.

IMPACT IF NOT PROVIDED: Air Force members and their families will

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION EIELSON AFB, ALASKA		
4. PROJECT TITLE IMPROVE FAMILY HOUSING		5. PROJECT NUMBER FTQW914001

continue to be housed in unsatisfactory quarters in areas of severe congestion which adversely affects morale and retention of quality personnel. The cost of maintenance of these old, deteriorated facilities will continue to increase. Obsolete heating systems and inadequate insulation will continue to prevent proper interior temperature control and cause high heating costs. Further breakdown of asbestos insulation will increase the health hazard to occupants and maintenance personnel. The mission of Eielson AFB would be degraded.

WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None

WORK PROGRAMMED FOR NEXT THREE YEARS: None

ADDITIONAL: Costs for all supporting facilities have been excluded from the cost per unit calculations in order to provide a more realistic idea of actual improvement costs per unit. The supporting facilties are much needed improvements to the neighborhood infrastructure. The replacement cost is $170,000 per unit. The improvement cost excluding supporting facilities is $97,335 per unit and represents 57.2% of the replacement cost. The improvement cost including supporting facilities is $110,927 per unit and represents 65.2% of the replacement cost. This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION ELMENDORF AFB, ALASKA	4. PROJECT TITLE IMPROVE FAMILY HOUSING

5. PROGRAM ELEMENT 8.87.42	6. CATEGORY CODE 711-143	7. PROJECT NUMBER FXSB914001	8. PROJECT COST($000) 4,804

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
IMPROVE FAMILY HOUSING	UN	40	76,300	3,052
SUPPORTING FACILITIES				1,390
PLAYGROUNDS	EA	2	14,500	(29)
AREA LANDSCAPING	EA	75	1,000	(75)
PAVEMENTS	SY	5,128	23	(118)
SIDEWALKS	SY	900	13	(12)
UNDERGROUND UTILITIES	EA	410	1,000	(410)
ASBESTOS REMOVAL	UN	97	5,154	(500)
DEMOLITION	UN	32	7,687	(246)
SUBTOTAL				4,442
CONTINGENCY (5%)				222
TOTAL CONTRACT COST				4,664
SUPERVISION, INSPECTION AND OVERHEAD (3%)				140
TOTAL REQUEST				4,804
MOST EXPENSIVE UNIT $111,275				
AREA COST FACTOR 1.79				

10. Description of Proposed Construction: Convert 10 8-plexes into (10) 3 and 4-bedroom 4-plexes. Work includes: alteration to provide integral single car garages and utility rooms, modernized kitchens and baths; adequately sized bedrooms & living/family rooms; replacing interior electrical wiring, heating and flooring; and removing asbestos. Provide playgrounds, vehicle parking and landscaping.

11. PROJECT: Provides for improvement and repairs to 40 Appropriated (FY50-69) military family housing units.

REQUIREMENT: Project is required to provide upgraded MFH quarters which meet current Air Force standards of size, energy conservation, appearance, physical comfort and maintainability.

CURRENT SITUATION: These units were constructed in 1954. New windows, siding, insulation and roofing were installed within the last four years. The existing bathroom fixtures are deteriorated, require constant maintenance and repair, and need to be replaced. The units do not have bathrooms on the first floor. The kitchens do not provide adequate storage, cabinet space or countertop area and do not have a functional layout. Bedrooms are undersized and cannot accommodate even minimal furnishings, i.e., a bed and chest of drawers. This results in some 3-bedroom units being used to house personnel authorized two bedrooms. The existing heating systems are inefficient and require excessive maintenance to ensure comfortable temperatures. Playgrounds, vehicle parking areas and landscaping are inadequate. This results in a generally poor outside appearance and living environment which is compounded by the extreme congestion caused by these closely spaced 8-family units.

IMPACT IF NOT PROVIDED: Air Force members and their families will continue to be housed in unsatisfactory quarters in areas of severe

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION ELMENDORF AFB, ALASKA		
4. PROJECT TITLE IMPROVE FAMILY HOUSING		5. PROJECT NUMBER FXSB914001

congestion, which adversely affects morale and retention of quality personnel. The cost of maintenance of these old, deteriorated facilities will continue to increase. The inefficient heating systems will continue to cause high heating costs. Further breakdown of asbestos insulation will increase the health hazard to occupants and maintenance personnel. The mission of Elmendorf AFB would be degraded.

WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None

WORK PROGRAMMED FOR NEXT THREE YEARS: None

ADDITIONAL: Costs for all supporting facilities have been excluded from the cost per unit calculations in order to provide a more realistic idea of actual improvement costs per unit. The supporting facilities are much needed improvements to the neighborhood infrastructure and should not be included in the costs against these units. The replacement cost is $160,000 per unit. The improvement cost excluding supporting facilities is $72,102 per unit and represents 45.1% of the replacement cost. The improvement cost including supporting facilities is $110,551 per unit and represents 69.1% of the replacement cost. This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION EAKER AFB, ARKANSAS	4. PROJECT TITLE IMPROVE CAPEHART HOUSING (PHASE 2 OF 5)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
8.87.42	711-111	BWKR880004P2	10,169

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
IMPROVE CAPEHART HOUSING	UN	207	45,425	9,403
SUBTOTAL				9,403
CONTINGENCY (5%)				470
TOTAL CONTRACT COST				9,873
SUPERVISION, INSPECTION AND OVERHEAD (3%)				296
TOTAL REQUEST				10,169
MOST EXPENSIVE UNIT $66,000				
AREA COST FACTOR 0.91				

10. Description of Proposed Construction: Improve 207 Capehart housing units. Work includes the upgrading of kitchen and bathroom areas, install ceiling fans, replace electrical and mechanical systems including duct system, and exterior doors. Adds second bathroom to 3-bedroom units, patios, privacy fences and landscaping. Seal existing heating and air conditioning duct system.

11. PROJECT: Provides for the improvements and repairs to 207 Capehart housing units.

REQUIREMENT: Provide adequate housing for Air Force personnel and their dependents which is commensurate with housing available on the local economy. This is the second phase of a 5-phase program to improve 828 Capehart housing units.

CURRENT SITUATION: These Capehart housing units are over 29 years old, have had no major renovation work since they were constructed and are in dire need of renovation. The kitchens and baths are antiquated in design and need complete remodeling. Electrical wiring in all units is deteriorated and the number of electrical outlets in the units are insufficient; the electrical system needs upgrading and is currently a fire and safety hazard. The heating and air conditioning duct systems are contained in the floor slab and are insulated with asbestos material. Location of the duct system prohibits adequate termite treatment of the units. This duct system will be replaced with an overhead system using modern design and technology. The existing heating, and air conditioning systems are old and require replacement with new, energy efficient systems.

IMPACT IF NOT PROVIDED: Personnel assigned will continue to be housed in inadequate housing which will have a detrimental effect on the morale and

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION EAKER AFB, ARKANSAS		
4. PROJECT TITLE IMPROVE CAPEHART HOUSING (PHASE 2 OF 5)		5. PROJECT NUMBER BWKR880004P2

subsequent retention of military personnel and their families.
WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None
WORK PROGRAMMED FOR NEXT THREE YEARS: None
ADDITIONAL: An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost efficient over the life of the project. This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION LITTLE ROCK AFB, ARKANSAS	4. PROJECT TITLE IMPROVE FAMILY HOUSING (PHASE 6 OF 8)

5. PROGRAM ELEMENT 8.87.42	6. CATEGORY CODE 711-111	7. PROJECT NUMBER NKAK914032	8. PROJECT COST($000) 6,847

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
IMPROVE FAMILY HOUSING	UN	153	41,379	6,331
SUBTOTAL				6,331
CONTINGENCY (5%)				317
TOTAL CONTRACT COST				6,648
SUPERVISION, INSPECTION AND OVERHEAD (3%)				199
TOTAL REQUEST				6,847
MOST EXPENSIVE UNIT $46,377				
AREA COST FACTOR 0.87				

10. Description of Proposed Construction: Improve 153 Capehart units. Renovate kitchens and bathrooms, reconfigure bedrooms, modify laundry and dining areas, add family rooms and second baths, modify patios; replace flooring, electrical wiring, and closet doors; repair ceiling and wall finishes.

11. PROJECT: Provides for improvements and repairs to 153 units (153 junior NCO quarters).

REQUIREMENT: Project is required to provide adequate quarters for military members and their families assigned to Little Rock AFB. It is phase 6 of a 8-phased program which will renovate a total of 1,535 units. (Phases 1 through 3 are complete. Phase 4 is programmed for FY88. Phase 5 is programmed for FY90.) This renovation will prolong the useful life of these less modern units by enhancing the livability and reducing operating cost.

CURRENT SITUATION: These units were constructed in 1958 and have received no major renovation, other than routine maintenance and repairs, since construction. The kitchens and baths require replacement of original fixtures. Additions are needed to provide adequate living space. The interior requires reconfiguration for better functional flow.

IMPACT IF NOT PROVIDED: Air Force members and their families would continue to be housed in unsatisfactory conditions, affecting morale and the retention of quality personnel.

WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None

WORK PROGRAMMED FOR NEXT THREE YEARS: None

ADDITIONAL: An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION LITTLE ROCK AFB, ARKANSAS		
4. PROJECT TITLE IMPROVE FAMILY HOUSING (PHASE 6 OF 8)		5. PROJECT NUMBER NKAK914032

alternatives, new construction was found to be the most cost efficient over the life of the project. This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION MCCLELLAN AFB , CALIFORNIA	4. PROJECT TITLE IMPROVE WHERRY HOUSING (PHASE 1 OF 4)

5. PROGRAM ELEMENT 8.87.42	6. CATEGORY CODE 711-121	7. PROJECT NUMBER PRJY893025P2	8. PROJECT COST($000) 1,062

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
IMPROVE WHERRY HOUSING	UN	12	76,167	914
SUPPORTING FACILITIES				68
LANDSCAPE	LS			(34)
CONSTRUCT SIDEWALKS	LS			(34)
SUBTOTAL				982
CONTINGENCY (5%)				49
TOTAL CONTRACT COST				1,031
SUPERVISION, INSPECTION AND OVERHEAD (3%)				31
TOTAL REQUEST				1,062
MOST EXPENSIVE UNIT $88,500				
AREA COST FACTOR 1.15				

10. Description of Proposed Construction: Improve 12 Wherry units. Upgrade bathrooms, improve storage, repair kitchen/bath cabinets. Replace posts, store room door and lighting fixtures. Install double-pane windows, improve drainage, install sidewalks and utility sheds. Add half-bath with shower to undersized units. Remove wall between living room and dining area, replace roofs,enlarge concrete deck & install fence.

11. PROJECT: Provides improvements and repairs to 12 JNCO Wherry units.
REQUIREMENT: Project is required to provide adequate quarters for military members and their families assigned to this installation. This is the first phase of a four-phase project. Install sidewalks, enlarge storage, regrade at slab perimeter and improve drainage. Replace "water-eched" windows with insulated type. Provide energy efficient retrofits. Replace plumbing, drain and sewer lines, repair finish materials and fixtures, replaced decayed posts and exterior cement plaster. Utility sheds are badly needed and replacement of existing storage room doors is necessary. Add half-bath with shower to 2 bedroom units that are undersized.
CURRENT SITUATION: The Wherry housing units are wood frame buildings constructed in 1952. Original bathrooms are substandard and inadequate. The Wherry units are in the 70-80 Ldn noise exposure zone. Single-glazed windows result in noise-degraded living conditions. Rainwater tends to stand in puddles against foundations, causing seepage through concrete floor slabs.- Numerous posts at the entry/carports have decayed and require replacement. Streets have no sidewalks. These units were constructed over 34 years ago. In order to provide long-term MFH use, these units must be upgraded to meet current standards of energy conservation, appearance, and physical comfort.

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION MCCLELLAN AFB , CALIFORNIA		
4. PROJECT TITLE IMPROVE WHERRY HOUSING (PHASE 1 OF 4)		5. PROJECT NUMBER PRJY893025P2

IMPACT IF NOT PROVIDED: Air Force enlisted members and their families would continue to live in inadequate, substandard base housing, adversely affecting the morale and retention of personnel.
WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None
WORK PROGRAMMED FOR NEXT THREE YEARS: None
ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION TRAVIS AFB, CALIFORNIA	4. PROJECT TITLE IMPROVE MIL FAM HSG - PH 4

5. PROGRAM ELEMENT 8.87.42	6. CATEGORY CODE 711-121	7. PROJECT NUMBER XDAT914001	8. PROJECT COST($000) 8,060

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
IMPROVE MIL FAM HSG - PH 4	UN	144	51,750	7,452
SUBTOTAL				7,452
CONTINGENCY (5%)				373
TOTAL CONTRACT COST				7,825
SUPERVISION, INSPECTION AND OVERHEAD (3%)				235
TOTAL REQUEST				8,060
MOST EXPENSIVE UNIT $70,400				
AREA COST FACTOR 1.22				

10. Description of Proposed Construction: Improve 144 Wherry units. Renovate kitchens and baths, construct patios with privacy fences, add storage sheds, add family rooms, install soundproofing, upgrade exterior finishes, add half-baths; replace flooring, wiring, windows, roofs, evaporative coolers and upgrade heating systems; reconfigure interiors, and relocate laundry areas.

11. PROJECT: Provides improvements and repairs to 144 units (56 junior NCO quarters and 88 junior enlisted quarters).
REQUIREMENT: Project is required to provide adequate quarters for military members and their families assigned to this installation.
CURRENT SITUATION: These units were constructed in 1951 and have received no major renovation, other than routine maintenance and repairs since construction. The kitchens and baths require replacement of all original fixtures. The interiors require reconfiguration to provide a functional arrangement for space and adequate cabinet and countertop areas. Two and three bedroom units have only one bath. These units have inadequate space for family living and storage of personal belongings.
IMPACT IF NOT PROVIDED: Air Force families would continue to be housed in unsatisfactory conditions, affecting morale and the retention of quality personnel.
WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None
WORK PROGRAMMED FOR NEXT THREE YEARS: None
ADDITIONAL: An Ecomomic Analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, revitalization was found to be the most cost efficient over the life of the units. This project meets the criteria/scope specified in

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION TRAVIS AFB, CALIFORNIA		
4. PROJECT TITLE IMPROVE MIL FAM HSG - PH 4		5. PROJECT NUMBER XDAT914001

Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION PETERSON AFB, COLORADO		4. PROJECT TITLE IMPROVE FAMILY HOUSING (PHASE 4 OF 4)	
5. PROGRAM ELEMENT 8.87.42	6. CATEGORY CODE 711-143	7. PROJECT NUMBER TDKA890017P4	8. PROJECT COST($000) 1,722

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
IMPROVE FAMILY HOUSING	UN	35	45,486	1,592
SUBTOTAL				1,592
CONTINGENCY (5%)				80
TOTAL CONTRACT COST				1,672
SUPERVISION, INSPECTION AND OVERHEAD (3%)				50
TOTAL REQUEST				1,722
MOST EXPENSIVE UNIT $52,450				
AREA COST FACTOR 1.01				

10. Description of Proposed Construction: Improve 35 Appropriated housing units (FY50-69). Work will include alteration of space, improvement and repair of kitchens, bathrooms, mechanical, electrical and utility systems, building structure, components and equipment, yards, walks, driveways, windows, doors, floors, lighting, garage/carports, surfaces and finishes.

11. PROJECT: Provides improvements and repairs to 35 Appropriated (FY50-69) military family housing units in the 240 housing area.
REQUIREMENT: Revitalize 35 military family housing units in accordance with the Air Force "Whole House Modernization Concept." This is the third of a six-phase project intended to update existing housing to current construction codes and liveability standards, thereby extending useable life through the foreseeable future.
CURRENT SITUATION: These housing units were constructed in 1965 (200) and 1969 (40). The units were built using a tract housing concept, utilizing low cost/high maintenance materials. Due to functionally inadequate arrangement of partition walls, kitchen counters and appliances, dining and laundry areas suffer from poor traffic flow and limited usable space. No electrical ground-fault receptacles are installed in kitchens and bathrooms. Lighting fixtures are poorly arranged and over 20 years old. Complete bathroom renovation is necessary due to poor ventilation, water damage and lack of modern vanities. Each housing unit lacks the appropriate finish decor expected in the standard quality house. Windows are of metal construction with overset storm windows. Sliding sashes are worn, loose and binding. Interior and exterior bulk storage areas are inadequate. Location of existing water heating units further limit usable space.

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION PETERSON AFB, COLORADO		
4. PROJECT TITLE IMPROVE FAMILY HOUSING (PHASE 4 OF 4)		5. PROJECT NUMBER TDKA890017P4

IMPACT IF NOT PROVIDED: Current housing units are not in accordance with Air Force quality of life standards, and force military families to live in facilities below the quality of today's housing construction. Housing units will continue to deteriorate at an increasingly rapid rate and require a disproportionate share of the shrinking maintenance budget to maintain their livability.

WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None

WORK PROGRAMMED FOR NEXT THREE YEARS: None

ADDITIONAL: The 200 unit area consists of 48 single-unit, 6 two-unit and 35 four-unit structures. Units are masonry/wood construction on concrete slab. This project meets the criteria/scope specified in Part II of Military Handbook 1190, 'Facility Planning and Design Guide'.

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION BOLLING AFB, DISTRICT OF COLUMBIA	4. PROJECT TITLE IMPROVE FAMILY HOUSING (PHASE 4 OF 4)

5. PROGRAM ELEMENT 8.87.42	6. CATEGORY CODE 711-143	7. PROJECT NUMBER BXUR900457A	8. PROJECT COST($000) 2,579

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
IMPROVE FAMILY HOUSING	UN			2,385
2 BDR	UN	22	35,818	(788)
3 BDR	UN	22	35,818	(788)
4 BDR	UN	20	40,450	(809)
SUBTOTAL				2,385
CONTINGENCY (5%)				119
TOTAL CONTRACT COST				2,504
SUPERVISION, INSPECTION AND OVERHEAD (3%)				75
TOTAL REQUEST				2,579
MOST EXPENSIVE UNIT $50,000				
AREA COST FACTOR 1.04				

10. Description of Proposed Construction: Improve 64 Appropriated units (FY50-69). Relocate/reconfigure kitchens, baths, living, dining and bedrooms. Provide family/dining areas, master baths. Upgrade finishes, fixtures and utility systems. Replace hot water heaters, laundry/kitchen floors, doors, windows, roofs/awnings. Replace gutters and downspouts as required. Provide decks and landscape. Repair patios and fences.

11. PROJECT: Improve 64 Appropriated military family housing units. This is the final phase of a four-phase project.

REQUIREMENT: This project is required to improve the quality of life for military members and their families assigned to this installation.

CURRENT SITUATION: Family housing units included in this upgrade have received no major renovation since construction. The quarters are deficient of master baths, and family/dining areas. All interior fixtures and finishes are worn and outdated. Utility systems need upgrade and repairs. Structural repairs are needed to preserve the quarters. Relocation and reconfiguration of space is needed to provide good functional arrangement and circulation. Exterior areas need repairs and upgrade to enhance livability and appearance.

IMPACT IF NOT PROVIDED: Failure to upgrade the standard of living for military members and their families will impact morale and adversely impact the mission and ability to retain valuable military members.

WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: Included storage sheds, privacy fences, roofs, downspouts and gutters for a total of $329,000 on 64 units.

WORK PROGRAMMED FOR NEXT THREE YEARS: None

ADDITIONAL: An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION BOLLING AFB, DISTRICT OF COLUMBIA		
4. PROJECT TITLE IMPROVE FAMILY HOUSING (PHASE 4 OF 4)		5. PROJECT NUMBER BXUR900457A

operation. Based on the net present values and benefits of the respective alternatives, revitalization was found to be the most cost efficient over the life of the project. This project meets the criteria/scope specified in Part II of Military Handbook 1190, 'Facility Planning and Design Guide'.

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION EGLIN AFB, FLORIDA	4. PROJECT TITLE IMPROVE CAPEHART HOUSING

5. PROGRAM ELEMENT 8.87.42	6. CATEGORY CODE 711-111	7. PROJECT NUMBER FTFA910004	8. PROJECT COST($000) 1,987

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
IMPROVE CAPEHART HOUSING	UN	54	34,019	1,837
SUBTOTAL				1,837
CONTINGENCY (5%)				92
TOTAL CONTRACT COST				1,929
SUPERVISION, INSPECTION AND OVERHEAD (3%)				58
TOTAL REQUEST				1,987
MOST EXPENSIVE UNIT $36,800				
AREA COST FACTOR 0.82				

10. Description of Proposed Construction: Improve 54 Capehart units. Replace doors, windows, kitchen cabinets & countertops, closet shelving, bathroom accesories & fixtures, thermostats, registers, kitchen exhaust fans & electrical components. Provide exterior finish & insulation. Construct patios & storage. Install sliding glass doors, gutters/downspouts, garbage racks, heat pumps, disposals & dishwashers.

11. PROJECT: Provides for improvements and repairs to 54 Capehart family housing units.
REQUIREMENT: Project is required to provide adequate quarters for military members and their families assigned to this installation.
CURRENT SITUATION: These units were constructed in the 1950's and have received no major renovation other than routine work and change of occupancy maintenance since construction. The bathrooms and kitchens require replacement of all original fixtures and cabinets. Storage space is totally inadequate for the occupants. There are no garbage disposals or dishwashers in these units now. The existing HVAC system is reaching the end of its useful life. Replacing them with heat pumps/with heat recovery units will result in a significant energy savings.
IMPACT IF NOT PROVIDED: Air Force members and their families would continue to be housed in unsatisfactory conditions, affecting morale and retention of quality personnel and degrading the mission of Eglin AFB.
WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None
WORK PROGRAMMED FOR NEXT THREE YEARS: None
ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION MACDILL AFB, FLORIDA	4. PROJECT TITLE IMPROVE WHERRY HOUSING

5. PROGRAM ELEMENT 8.87.42	6. CATEGORY CODE 711-121	7. PROJECT NUMBER NVZR900012	8. PROJECT COST($000) 2,456

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
IMPROVE WHERRY HOUSING	UN	44	51,591	2,270
WHERRY TYPE D (E-1 - E-6)	UN	20	45,200	(904)
WHERRY TYPE D (E-7 - E-9)	UN	20	48,950	(979)
WHERRY TYPE H (E-1 - E-6)	UN	4	38,750	(155)
PARKING AREAS	LS			(208)
PLAYGROUND AREAS	LS			(24)
SUBTOTAL				2,270
CONTINGENCY (5%)				114
TOTAL CONTRACT COST				2,384
SUPERVISION, INSPECTION AND OVERHEAD (3%)				72
TOTAL REQUEST				2,456
MOST EXPENSIVE UNIT $55,818				
AREA COST FACTOR 0.96				

10. Description of Proposed Construction: Improve 44 Wherry four-plex housing units. Construct additions, including 180 SF family room and 40 SF bathroom. Upgrade kitchen and bathroom cabinets, fixtures and finishes. Upgrade electrical and HVAC systems. Enlarge patio; relocate utility room; convert front stairwell from interior to exterior creating entry foyer. Sandblast and paint exteriors.

11. PROJECT: Provide improvements to 44 Wherry military family housing units.

REQUIREMENT: Project is required to provide adequate quarters for military members and their families. Units need interior renovation work, family room addition, interior bulk storage, and an additional bathroom to meet this requirement.

CURRENT SITUATION: Existing units are small and cramped, creating uncomfortable living conditions for the occupants. There are currently no family rooms, and individual units lack bulk storage space. Although these three bedroom units require two bathrooms, they currently have only one bathroom which has outdated fixtures and finishes. Kitchen fixtures and finishes need to be upgraded. Interior room finishes and electrical systems also need to be upgraded. Inadequate HVAC systems and insulation in the units has resulted in excessive energy costs.

IMPACT IF NOT PROVIDED: Air Force members and their families will continue to be housed in unsatisfactory conditions creating a morale and retention problem for MacDill AFB.

WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None

WORK PROGRAMMED FOR NEXT THREE YEARS: None

ADDITIONAL: The replacement cost for these JR NCO and SR NCO units ranges from $84,216 to $92,232 per unit. The total work included in this project

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION MACDILL AFB, FLORIDA		
4. PROJECT TITLE IMPROVE WHERRY HOUSING		5. PROJECT NUMBER NVZR900012

represents a maximum of 58% of the replacement cost of an individual unit. Completion of this project will provide adequate housing for MacDill AFB personnel. An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, revitalization was found to be the most cost efficient over the life of the project. This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION ROBINS AFB, GEORGIA	4. PROJECT TITLE IMPROVE FAMILY HOUSING (PHASE 2 OF 2)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
8.87.42	711-142	UHHZ860008P2	1,710

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
IMPROVE FAMILY HOUSING	UN	40	39,525	1,581
SUBTOTAL				1,581
CONTINGENCY (5%)				79
TOTAL CONTRACT COST				1,660
SUPERVISION, INSPECTION AND OVERHEAD (3%)				50
TOTAL REQUEST				1,710
MOST EXPENSIVE UNIT $42,750				
AREA COST FACTOR 0.81				

10. Description of Proposed Construction: Improve 40 Appropriated units (FY70 & After). Add parking, outside storage, landscape, install storm windows and doors, install playground equipment, correct drainage problem, install meter bases. Replace range hoods, kitchen cabinets, countertops, sinks, add shelves over wash machine. Replace bath fixtures, exterior siding, install sheetrock, existing storage rooms and add privacy screens.

11. PROJECT: Provides for improvements to 40 family housing units occupied by Senior NCO's.

REQUIREMENT: This project will provide the occupants with the interior and exterior improvements to upgrade their homes to current DOD standards of livability.

CURRENT SITUATION: These units were constructed in 1972. This project is Phase II of a 2 phase program to improve these units. The Phase I project (FY89) is in design. No major renovation, other than routine maintenance work and change of occupancy work has been accomplished on these units since construction. These units do not have adequate storage for lawnmowers, bicycles and tools. Whenever it rains, standing water appears in the lawns due to poor drainage. The driveways do not provide for adequate parking causing a problem with on-street parking. The units are not equipped with storm doors/windows or attic exhaust fans, all items that provide occupant comfort and energy conservation. Storage sheds do not meet fire code standards without sheetrock on the walls. The bathroom sinks are chipped and stained. The back of the stove can be seen from the family room which creates an unsightly and hazardous condition. The residents need a playground for their children to use after school and during the summer. The children are currently playing in the streets.

IMPACT IF NOT PROVIDED: Air Force members and their families would

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION ROBINS AFB, GEORGIA		
4. PROJECT TITLE IMPROVE FAMILY HOUSING (PHASE 2 OF 2)		5. PROJECT NUMBER UHHZ860008P2

continue to be housed in unsatisfactory conditions, affecting morale and the retentioon of quality personnel.
WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None
WORK PROGRAMMED FOR NEXT THREE YEARS: None
ADDITIONAL: Replacement costs for these units varies from $57,000 to $70,000 per unit. Maximum percentage of replacement cost is 63 percent. These units are structurally sound and this work will provide adequate housing for the next 20 years. An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, revitalization was found to be the most cost efficient over the life of the project. This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION NELLIS AIR FORCE BASE,NEVADA	4. PROJECT TITLE CONVERT SENIOR OFFICER QUARTERS

5. PROGRAM ELEMENT 8.87.42	6. CATEGORY CODE 711-142	7. PROJECT NUMBER RKMF914005	8. PROJECT COST($000) 1,583

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
IMPROVE SENIOR OFFICERS QUARTERS	UN	15	97,600	1,464
SUBTOTAL				1,464
CONTINGENCY (5%)				73
TOTAL CONTRACT COST				1,537
SUPERVISION, INSPECTION AND OVERHEAD (3%)				46
TOTAL REQUEST				1,583
MOST EXPENSIVE UNIT $105,600				
AREA COST FACTOR 1.09				

10. Description of Proposed Construction: Convert 15 duplex units to single units in Manch II housing area. Renovate kitchen/bathrooms, replace doors/windows, insulate walls/ceilings, and relocate washer/dryer area. Reconfigure interior walls, apply stucco to exterior, replace roof, and provide space for atrium access. Replace heating, ventilation, and A/C system, electric lines, plumbing systems and floor slab/foundation.

11. REQUIREMENT: 1,970 SF ADEQUATE: 1,350 SF SUBSTANDARD: 620 SF

PROJECT: Provide improvements and repairs to 15 Appropriated units in Manch II family housing area. officer quarters.

REQUIREMENT: Project is required to provide adequate quarters for senior officers and their families assigned to Nellis AFB.

CURRENT SITUATION: The 15 key or essential senior officers live in a senior non-commissioned officer area of the base. These units are well below the authorized space for these officers. This project provides a separate housing area for these senior officers and provides 15 houses for senior NCO use. The conversion units were constructed in 1971 and have never had renovation work, other than routine maintenance and repair. The mechanical and electrical systems are deteriorated. The interior/exterior finishes are also deteriorated. Windows, interior and exterior doors are energy inefficient, deteriorated and require replacement. There is no existing overhead patio cover for entertainment and the entry door has no cover. Kitchens and bathrooms are old and require new fixtures. Existing built-up roof systems are old and leak. Foundations have failed on several units with floor cracks and separations from exterior walls. The existing units are currently 1350 net square feet per unit. Upon conversion, each single unit will be approximately 1970 net square feet.

IMPACT IF NOT PROVIDED: Living conditions will remain inadequate for

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION NELLIS AIR FORCE BASE,NEVADA		
4. PROJECT TITLE CONVERT SENIOR OFFICER QUARTERS		5. PROJECT NUMBER RKMF914005

senior officer quarters and their families residing in existing units affecting morale and the retention of quality personnel.

WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None

WORK PROGRAMMED FOR NEXT THREE YEARS: None

ADDITIONAL: An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, revitalization was found to be the most cost efficient over the life of the project. The proposed project should provide an adequate housing unit for at least another 20 years without additional major investments other than routine and cyclical repairs. This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION PLATTSBURGH AFB, NEW YORK	4. PROJECT TITLE IMPROVE CAPEHART HOUSING (PHASE 2 OF 8)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
8.87.42	711-111	THWA880038P2	15,640

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
IMPROVE CAPEHART HOUSING	UN	224	52,826	11,833
SUPPORTING FACILITIES				2,628
UTILITIES	LS			(1,654)
ROADS	LS			(658)
SITE IMPROVEMENTS / RECREATION	LS			(316)
SUBTOTAL				14,461
CONTINGENCY (5%)				723
TOTAL CONTRACT COST				15,184
SUPERVISION, INSPECTION AND OVERHEAD (3%)				456
TOTAL REQUEST				15,640
MOST EXPENSIVE UNIT $69,750				
AREA COST FACTOR 1.12				

10. Description of Proposed Construction: Improve 224 Capehart family housing units. Work includes upgrading kitchen and bath areas, heat and electrical systems. Work further consists of asbestos removal, landscaping, providing additional square footage, upgrading utility distribution systems, and upgrading the energy conservation features of the houses.

11. PROJECT: Provides improvements and repairs to 224 Capehart housing units at Plattsburgh AFB, New York.

REQUIREMENT: This project is required to ensure adequate quarters and living standards are provided for military personnel and their families. Additions are required for these Capehart housing units in order to alleviate serious space deficiencies (particularly in kitchens and bedroom areas) of many 2-story, 2 and 3-bedroom units. This is phase two of an eight phase project.

CURRENT SITUATION: These Capehart housing units were constructed in the 1956/57 time frame. Kitchens are inadequately sized and poorly configured. The majority of housing units don't have dishwashers. Bathrooms require new fixtures and lack vanities and exhaust fans. Moisture (mildew) is a severe problem in bathroom areas. All of the 3-bedroom, 2-story units have only one bath which is on the 2nd floor. This creates a hardship for military members who are getting ready for work and, at the same time, are attempting to get other family members ready for school or work.

IMPACT IF NOT PROVIDED: Military members and their families will continue to be housed in inadequate facilities, which can only degrade their morale and adversely impact the base mission.

WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: Replace floor tile, cost

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION PLATTSBURGH AFB, NEW YORK		
4. PROJECT TITLE IMPROVE CAPEHART HOUSING (PHASE 2 OF 8)		5. PROJECT NUMBER THWA880038P2

$116,900 and replace hazardous electrical fixture in garages, cost $22,400.
WORK PROGRAMMED FOR NEXT THREE YEARS: None
ADDITIONAL: An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, revitalization was found to be the most benefical over the life of the project. This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION CHARLESTON AFB, SOUTH CAROLINA	4. PROJECT TITLE IMPROVE FAMILY HOUSING (PHASE 3 OF 6)

5. PROGRAM ELEMENT 8.87.42	6. CATEGORY CODE 711-111	7. PROJECT NUMBER DKFX904036	8. PROJECT COST($000) 8,389

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
IMPROVE FAMILY HOUSING	UN	180	43,094	7,757
SUBTOTAL				7,757
CONTINGENCY (5%)				388
TOTAL CONTRACT COST				8,145
SUPERVISION, INSPECTION AND OVERHEAD (3%)				244
TOTAL REQUEST				8,389
MOST EXPENSIVE UNIT $46,700				
AREA COST FACTOR 0.89				

10. Description of Proposed Construction: Improve 180 Capehart units. Add family rooms and baths; modify laundry room; construct trash screens; renovate kitchens and bathrooms; upgrade utilities; replace windows, roofs, lights, closet doors, flooring, and HVAC systems; Install insulation; reconfigure interiors; repair ceiling and wall finishes.

11. PROJECT: Provides for improvements and repairs to 180 units (180 junior NCO quarters).
REQUIREMENT: Project is required to provide adequate quarters for military members and their families assigned to this installation. It is a continuation of a 6-phased program which will renovate a total of 977 units. (Phases 1 and 2 are under construction. Phase 4 is programmed for FY93.) This project will extend the useful life of these older less modern units and reduce operational cost.
CURRENT SITUATION: These units were constructed in 1960 and have received no major renovation, other than routine maintenance and repairs, since construction. Additional space for family rooms is required to bring units up to modern standards. Interior reconfiguration is required for better space utilization. Original kichen and bath fixtures require replacement. New windows, insulation and light fixtures are needed to reduce energy losses.
IMPACT IF NOT PROVIDED: Air Force members and their families would continue to be housed in unsatisfactory conditions, affecting morale and retention of quality personnel.
WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None
WORK PROGRAMMED FOR NEXT THREE YEARS: None
ADDITIONAL: An Economic Analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION CHARLESTON AFB, SOUTH CAROLINA		
4. PROJECT TITLE IMPROVE FAMILY HOUSING (PHASE 3 OF 6)		5. PROJECT NUMBER DKFX904036

operation. Based on the net present values and benefits of the respective alternatives, revitalization was found to be the most benefical over the life of the units. This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION MYRTLE BEACH AFB, SOUTH CAROLINA	4. PROJECT TITLE IMPROVE CAPEHART HOUSING (PHASE 2 OF 6)

5. PROGRAM ELEMENT 8.87.42	6. CATEGORY CODE 711-111	7. PROJECT NUMBER RDRD900008	8. PROJECT COST($000) 6,459

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
IMPROVE CAPEHART HOUSING	UN	130	45,938	5,972
SUBTOTAL				5,972
CONTINGENCY (5%)				299
TOTAL CONTRACT COST				6,271
SUPERVISION, INSPECTION AND OVERHEAD (3%)				188
TOTAL REQUEST				6,459
MOST EXPENSIVE UNIT $65,430				
AREA COST FACTOR 0.87				

10. Description of Proposed Construction: Improve 130 Capehart housing units. Construct additions to provide family rooms and renovate kitchens and bathrooms. Upgrade electrical system and replace vinyl floor covering and exterior doors. Upgrade HVAC system and relocate washer/dryer connections to utility room. Paint interior of quarters. Repair/replace roofs as needed. Construct patios, privacy fencing and outside storage.

11. PROJECT: Provides for additions, improvements and repairs to 130 Capehart military family housing units.

REQUIREMENT: Project is required to provide adequate quarters for military members and their families. It is part of a six phase program which will upgrade all 800 units at this base.

CURRENT SITUATION: These units were constructed in the 1950s and have received no major renovation, other than routine repairs and change of occupancy maintenance, since construction. The bathrooms require replacement of all original fixtures. The kitchens require reconfiguration to provide adequate storage, cabinet space and countertop area. A survey of the kitchen lighting indicated it was grossly inadequate. Also, the number of duplex receptables in the kitchen need to be increased. The HVAC system is inefficient because the rigid ducting is poorly configured and crushed in many places. Patios and privacy fencing exist in only six units. Washers and dryers are located in kitchens. This location is unsightly, noisy and occupies needed counter/cabinet space. The electrical wiring is brittle, receptacles are not grounded, and the panel is undersized for today's electrical equipment.

IMPACT IF NOT PROVIDED: Air Force members and their families will continue to be housed in unsatisfactory conditions, creating a morale and retention problem at Myrtle Beach AFB.

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION MYRTLE BEACH AFB, SOUTH CAROLINA		
4. PROJECT TITLE IMPROVE CAPEHART HOUSING (PHASE 2 OF 6)		5. PROJECT NUMBER RDRD900008

WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: Included replacement of windows in 650 units at a cost of $2.1 million, maintaining the exterior paint on 520 units at a cost of $400,000 and repairing the roofs on 150 units for $900,000.

WORK PROGRAMMED FOR NEXT THREE YEARS: None

ADDITIONAL: The replacement costs for these units varies from $59,740 to $116,986 per unit. The total work included in this project represents a range of 41 to 61 percent of the replacement cost. An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, revitalization was found to be the most cost efficient over the life of the project. This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION SHAW AFB, SOUTH CAROLINA	4. PROJECT TITLE IMPROVE FAMILY HOUSING (PHASE 3 OF 4)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
8.87.42	711-142	VLSB890003	3,011

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
IMPROVE FAMILY HOUSING	UN	64	43,500	2,784
SUBTOTAL				2,784
CONTINGENCY (5%)				139
TOTAL CONTRACT COST				2,923
SUPERVISION, INSPECTION AND OVERHEAD (3%)				88
TOTAL REQUEST				3,011
MOST EXPENSIVE UNIT $47,121				
AREA COST FACTOR 0.78				

10. Description of Proposed Construction: Improve 64 Appropriated units (FY70 & After). Renew kitchen and baths, extend roof, siding, storm doors and windows, replace air conditioning system and light fixtures, insulate attics, walls and water piping.

11. PROJECT: Provides improvements and repairs to 64 family housing units.

REQUIREMENT: Project is required to provide adequate quarters for military members and their families assigned to this installation.

CURRENT SITUATION: Exterior doors, siding, and windows are directly exposed to the elements with very little roof overhang, allowing rapid deterioration. Units do not have storm or screen doors to permit ambient air circulation causing excessive energy use. Existing windows are single glazed, light-duty windows also resulting in efficient energy use. Existing bathtubs are unsupported fiberglass with a constant leak and water damage problem. Cabinets, countertops, and light fixtures are of poor quality and require replacement. The floor tile is worn and requires replacement. Existing siding is of poor quality, absorbs moisture, and will not provide protection for the structure.

IMPACT IF NOT PROVIDED: Continued deterioration will cause maintenance load and cost to increase. living conditions will remain inadequate for Air Force personnel residing in these units.

WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None

WORK PROGRAMMED FOR NEXT THREE YEARS: None

ADDITIONAL: Units in this project have an average replacement cost of $64,395. This project represents 62 percent of the replacement costs. An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION SHAW AFB, SOUTH CAROLINA		
4. PROJECT TITLE IMPROVE FAMILY HOUSING (PHASE 3 OF 4)		5. PROJECT NUMBER VLSB890003

the net present values and benefits of the respective alternatives, revitalization was found to be the most cost efficient over the life of the project. This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION BERGSTROM AFB, TEXAS		4. PROJECT TITLE IMPROVE FAMILY HOUSING	

5. PROGRAM ELEMENT 8.87.42	6. CATEGORY CODE 711-142	7. PROJECT NUMBER BJHZ907001	8. PROJECT COST($000) 1,729

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
IMPROVE FAMILY HOUSING	UN	46	34,761	1,599
AIRMEN UNITS	UN	34	30,029	(1,021)
SENIOR OFFICER QUARTERS	UN	11	46,636	(513)
SENIOR OFFICER QUARTERS	UN	1	65,000	(65)
SUBTOTAL				1,599
CONTINGENCY (5%)				80
TOTAL CONTRACT COST				1,679
SUPERVISION, INSPECTION AND OVERHEAD (3%)				50
TOTAL REQUEST				1,729
MOST EXPENSIVE UNIT $70,300				
AREA COST FACTOR 0.87				

10. Description of Proposed Construction: Improve 46 Appropriated housing units (FY70 & After). Add outside storage, patio covers, privacy fences; add attic insulation, ceiling fans; paint exterior and interior; replace vinyl faced siding; improve/refurbish baths; replace aluminum wiring for 34 airmen units; renovate kitchen/breakfast area and install energy efficient windows in 12 SOOs and enlarge carports at 11 SOOs.

11. PROJECT: Improve 46 Appropriated (FY70 & After) military family housing units. Total includes 12 Senior Officer (0-6) quarters and 34 Airmen duplex units (17 bldgs).

REQUIREMENT: Project is required to upgrade the final portion of base housing which requires rehabilitation in order to provide adequate quarters for active duty military personnel assigned to Bergstrom AFB, Texas.

CURRENT SITUATION: The 12 senior officer units were constructed in 1969 and the 34 airmen units were constructed in 1971. None of these units have had any major renovation, other than routine work and change of occupancy maintenance, since construction. All 46 units lack adequate outside storage. Exterior siding is deteriorating and requires painting. The ceiling insulation, exterior doors and lighting fixtures are old and inadequate. All original bathroom fixtures require replacement. Flooring is deteriorated and needs to be replaced and upgraded. Concrete curbs and gutters are required to provide proper water drainage. Units do not have covered patios. The 34 airmen units also require electrical wiring and secondary power service repairs. The bathrooms require extensive repairs to bring them up to current utility and building code standards. The 12 senior officer quarters additionally require master bedroom shower repairs, kitchen/breakfast area renovation, air conditioning units, and

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION BERGSTROM AFB, TEXAS		
4. PROJECT TITLE IMPROVE FAMILY HOUSING		5. PROJECT NUMBER BJHZ907001

energy efficient window installation.
IMPACT IF NOT PROVIDED: Continued deterioration of the family housing units will cause maintenance costs to increase, and the cost of energy to provide proper living environment will continue to increase. Living conditions will remain inadequate for Air Force personnel residing in these units effecting morale and the retention of quality personnel.
WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None
WORK PROGRAMMED FOR NEXT THREE YEARS: None
ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION KELLY AFB, TEXAS	4. PROJECT TITLE IMPROVE WHERRY HOUSING (PHASE 4 OF 5)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
8.87.42	711-121	MBPB910498	2,301

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
IMPROVE WHERRY HOUSING	UN	37	56,811	2,102
SUPPORTING FACILITIES				26
PLAYGROUND EQUIPMENT	EA	26	1,000	(26)
SUBTOTAL				2,128
CONTINGENCY (5%)				106
TOTAL CONTRACT COST				2,234
SUPERVISION, INSPECTION AND OVERHEAD (3%)				67
TOTAL REQUEST				2,301
MOST EXPENSIVE UNIT $61,500				
AREA COST FACTOR 0.88				

10. Description of Proposed Construction: Improve 37 Wherry units. Renovate kitchens and bathrooms, replace electrical system, upgrade HVAC, install new interior walls, replace roofing, upgrade storage areas, provide new patios/decks and porches. Add front addition to provide private entrance to each unit, add ext trim, provide energy conservation items (heat pumps, insulation, DHW heaters). Install playground equip.

11. PROJECT: Provides for improvements and repairs to 37 junior enlisted quarters in Billy Mitchell Village.

REQUIREMENT: Project is required to provide adequate quarters for military members and their families assigned to Kelly AFB. It is the fourth of a five phase program which will renovate 369 units in this area. Phase I is under construction. Phase II is programmed for FY89, Phase III is programmed for FY90, and Phase V is programmed for FY92. Additionally, project is required to ensure that the "whole house" concept is utilized in the PAIP.

CURRENT SITUATION: These units were constructed in 1942 and have not received major renovation work since construction. Kitchen and bathroom cabinets and fixtures have deteriorated to a point where replacement is the only option. HVAC systems are inefficient and require excessive maintenance. There are no play or recreation areas suitable for small children. Storage areas are not large enough and are badly deteriorated. Grass, a few shrubs and trees constitute all existing landscape. Energy conservation measures have never been implemented for this area. Cramped, inefficient floor plans provide a poor family atmosphere, and some rooms are no longer useable because of added ducts and utility rooms. Exteriors are unsightly with community amenities lacking.

IMPACT IF NOT PROVIDED: Air Force members and their families would

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION KELLY AFB, TEXAS		
4. PROJECT TITLE IMPROVE WHERRY HOUSING (PHASE 4 OF 5)		5. PROJECT NUMBER MBPB910498

continue to be housed in unsatisfactory conditions, affecting morale and the retention of quality personnel. The mission and image of Kelly AFB would be degraded. Existing housing will continue to deteriorate beyond useable condition.

WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None

WORK PROGRAMMED FOR NEXT THREE YEARS: None

ADDITIONAL: The replacement costs for these units range from $63,000 to $78,000 per unit. The total work included in this phase represents an average of 40 percent of the replacement cost, with a maximum of 59%. The proposed project should provide adequate housing for another 20 years without additional major investments other than routine and cyclical repairs or maintenance. SARPMA Surveillance (6.0%) = $62,280.

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION LAUGHLIN AFB, TEXAS	4. PROJECT TITLE IMPROVE CAPEHART HOUSING (PHASE 1 OF 4)

5. PROGRAM ELEMENT 8.87.42	6. CATEGORY CODE 711-111	7. PROJECT NUMBER MXDP917000	8. PROJECT COST($000) 5,427

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
IMPROVE CAPEHART HOUSING	UN	140	35,843	5,018
SUBTOTAL				5,018
CONTINGENCY (5%)				251
TOTAL CONTRACT COST				5,269
SUPERVISION, INSPECTION AND OVERHEAD (3%)				158
TOTAL REQUEST				5,427
MOST EXPENSIVE UNIT $46,000				
AREA COST FACTOR 0.90				

10. Description of Proposed Construction: Improve 140 Capehart units. Renovate kitchen/baths, correct floor plan/unit layout deficiencies, provide second bath as required, upgrade electrical/plumbing/HVAC systems, replace doors/windows with energy efficient units, provide patio with cover/privacy fence/storage shed, upgrade exterior/carports, upgrade/paint interior, repair termite damage, and landscape as required.

11. PROJECT: Provides for improvements and repairs to 140 Capehart housing units (106 company grade officer quarters and 34 senior noncommissioned officer quarters).

REQUIREMENT: Project is required to provide adequate quarters for military members and their families assigned to this installation. It is the first of a 4-phase construction program to renovate a total of 500 Capehart units. (Phase 2 is programmed for FY 92, Phase 3 for FY 94, and Phase 4 for FY 95).

CURRENT SITUATION: These units were constructed in 1959 and have received no major renovation, other than routine work and change of occupancy maintenance, since construction. The kitchens require reconfiguration to provide adequate storage, cabinet, and countertop areas. There are 180 units out of 500 with only one bathroom, and existing bathrooms require the replacement of all original fixtures. The existing electrical and plumbing systems are inadequate and need replacement. The HVAC systems are not energy efficient and have deteriorated to a point where they need replacement. The units have minimal outside storage and the patios are inadequate, with little privacy and no cover. The existing doors and windows are energy inefficient. The carports and exterior siding have deteriorated to the point of being unsightly and need major repair work.

IMPACT IF NOT PROVIDED: Air Force members and their families will

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION LAUGHLIN AFB, TEXAS		
4. PROJECT TITLE IMPROVE CAPEHART HOUSING (PHASE 1 OF 4)		5. PROJECT NUMBER MXDP917000

continue to be housed in unsatisfactory conditions, affecting morale and the retention of quality personnel.
WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: Included the replacement of roofs and repainting exteriors for a total of $780,000.
WORK PROGRAMMED FOR NEXT THREE YEARS: None
ADDITIONAL: The replacement cost of these units vary from $53,000 to $80,000 per unit. The total work in this project represents a maximum of 46% of the replacement cost of an individual unit. The units, with required termite repairs, are considered structurally sound and the proposed project should provide adequate housing for at least another 20 years without additional major investments other than routine or cyclical repairs. This project meets the criteria/scope specified in Part II of Military Handbook 1190, 'Facility Planning and Design Guide'.

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION SHEPPARD AFB, TEXAS	4. PROJECT TITLE IMPROVE CAPEHART HOUSING (PHASE 1 OF 3)

5. PROGRAM ELEMENT 8.87.42	6. CATEGORY CODE 711-111	7. PROJECT NUMBER VNVP900040	8. PROJECT COST($000) 8,133

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
IMPROVE CAPEHART HOUSING	UN	197	38,173	7,520
SUBTOTAL				7,520
CONTINGENCY (5%)				376
TOTAL CONTRACT COST				7,896
SUPERVISION, INSPECTION AND OVERHEAD (3%)				237
TOTAL REQUEST				8,133
MOST EXPENSIVE UNIT $48,000				
AREA COST FACTOR 0.97				

10. Description of Proposed Construction: Improve 197 Capehart units. Renovate kitchen/baths, upgrade electrical/plumbing/HVAC systems, construct entry with coat closet, provide second bath, enlarge master bedroom closet, provide patio with privacy fence/storage shed, upgrade exterior, correct floor plan/unit layout deficiencies, provide family room, upgrade/paint interior, and landscape as required.

11. PROJECT: Provides for improvements and repairs to 197 Capehart housing units.

REQUIREMENT: Project is required to provide adequate quarters for military members and their families assigned to this installation. It is the first of a 3-phase construction program to renovate a total of 499 Capehart units. (Phase 2 is programmed for FY 94 and phase 3 for FY 96.)

CURRENT SITUATION: These units were constructed in 1960 and have received no major renovation, other than routine work and change of occupancy maintenance, since construction. The kitchens require reconfiguration to provide adequate storage, cabinet, and countertop areas. The field grade officer and senior enlisted quarters are below the allowable square footage. The enlisted quarters only have one bathroom, and existing bathrooms require the replacement of all original fixtures and gas heaters. The existing lighting is inadequate and not energy efficient, while the receptacles in the kitchen and bathroom do not provide ground-fault protection. The existing units have insufficient outside storage and no privacy fences.

IMPACT IF NOT PROVIDED: Air Force members and their families will continue to be housed in unsatisfactory conditions, affecting morale and the retention of quality personnel.

WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION SHEPPARD AFB, TEXAS		
4. PROJECT TITLE IMPROVE CAPEHART HOUSING (PHASE 1 OF 3)		5. PROJECT NUMBER VNVP900040

WORK PROGRAMMED FOR NEXT THREE YEARS: None
ADDITIONAL: The units are considered structurally sound and the proposed project should provide adequate housing for at least another 20 years without additional major investments other than routine or cyclical repairs. This project meets the criteria/scope specified in Part II of Military Handbook 1190, 'Facility Planning and Design Guide'.

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION HILL AFB, UTAH	4. PROJECT TITLE IMPROVE FAMILY HOUSING

5. PROGRAM ELEMENT 8.87.42	6. CATEGORY CODE 711-144	7. PROJECT NUMBER KRSM904001	8. PROJECT COST($000) 84

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
IMPROVE FAMILY HOUSING	UN	4	13,500	54
SUPPORTING FACILITIES				24
PATIO AND LANDSCAPING	LS			(24)
SUBTOTAL				78
CONTINGENCY (5%)				4
TOTAL CONTRACT COST				82
SUPERVISION, INSPECTION AND OVERHEAD (3%)				2
TOTAL REQUEST				84
MOST EXPENSIVE UNIT $57,000				
AREA COST FACTOR 1.03				

10. Description of Proposed Construction: Improve 4 Appropriated units (Prior FY50). Provide independent heating system including gas-fired boiler, circulator pumps, a steam pit, piping and radiators. Replace windows, repair walls and upstairs floors. Replace interior lighting. Provide new patio and landscape units.

11. PROJECT: Provides for improvements and repairs to 4 family housing units (2- field grade and 2-company grade).

REQUIREMENT: Project is required to provide adequate quarters for military members and their families assigned to this installation. The work required will correct the unsightly appearance of the building, restore deteriorated flooring on the second floor, refinish interior surfaces, replace existing lighting and replace windows. Gas-fired boilers will provide a more habitable heating system and landscaping will insure maximum utilization of existing yard space while also enhancing the appearance of the units. This project will improve the quality of life for the tenants.

CURRENT SITUATION: This quadraplex was originally built to be a horse stable. The building is heated by the base steam plant, which experiencies routine down time due to maintenance and holidays. Some shut downs occur during the winter months, which leaves the occupants without heat for extended periods of time during the heating season. The interior finishes and lighting fixtures are outdated and in need of replacement. The upstairs floors consist of 9" by 9" tiles that are cracking and pulling up. Interior walls have spots of mold where they have gotten wet areas. Dry wall needs to be removed and replaced. The windows are part of the original construction and are not energy efficient. Yard spaces are in dire need of drainage correction and landscaping to provide

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION HILL AFB, UTAH		
4. PROJECT TITLE IMPROVE FAMILY HOUSING		5. PROJECT NUMBER KRSM904001

efficient utilization of the space and improve the exterior appearance.
IMPACT IF NOT PROVIDED: Failure to implement this project will adversely affect the quality of life and morale of the residents. Building 1130 will continue to deteriorate and create and unacceptable appearance.
WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None
project.
WORK PROGRAMMED FOR NEXT THREE YEARS: None
ADDITIONAL: An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, new construction was found to be the most cost efficient over the life of the project. This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION FAIRCHILD AFB, WASHINGTON	4. PROJECT TITLE IMPROVE WHERRY HOUSING (PHASE 3 OF 5)

5. PROGRAM ELEMENT 8.87.42	6. CATEGORY CODE 711-121	7. PROJECT NUMBER GJKZ830023P3	8. PROJECT COST($000) 11,559

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
IMPROVE WHERRY HOUSING	UN	202	52,911	10,688
SUBTOTAL				10,688
CONTINGENCY (5%)				534
TOTAL CONTRACT COST				11,222
SUPERVISION, INSPECTION AND OVERHEAD (3%)				337
TOTAL REQUEST				11,559
MOST EXPENSIVE UNIT $65,200				
AREA COST FACTOR 1.19				

10. Description of Proposed Construction: Improve 202 Wherry units. Provide a second bathroom to 3-bedroom units. Enclose basement stairs, install dishwashers, ceiling/bathroom fans, prewire telephones. Install showers in some units, patios/privacy screens. Insulate, replace doors, windows, frames as required. Repair roofs, structural framing and siding. Provide off-street parking. Increase net area to maximum authorized.

11. PROJECT: Provides improvements and repairs to 202 Wherry military family housing units to contemporary standards.

REQUIREMENT: This project is required to improve the quality of military family housing at Fairchild AFB. The family housing units require additional floor space, upgraded amenity packages, garages, off-street parking, and general interior and exterior upgrade. In addition, the neighborhoods require landscaping and playgrounds. This is the third of a 5-phase construction program.

CURRENT SITUATION: All 958 Wherry units at Fairchild AFB have received heavy use since they were built over thirty-five years ago. They are no longer consistent with the quality of living which a military member should be able to provide for his or her family. Over the years, many items of improvement, maintenance and repair have been done on selected units only. This has resulted in a wide disparity of available amenities in spite of the overall drab atmosphere. Houses do not provide the maximum space authorized by grade. Many basement stairs are unenclosed, posing a safety hazard as well as a shoddy, unfinished appearance. Kitchens lack dishwashers, and electrical systems in some cases are not grounded. Some bathrooms do not have showers and none have sliding glass shower doors. Houses lack patios. Many doors and window frames have been painted so many times they have become inoperable or have suffered from

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION FAIRCHILD AFB, WASHINGTON		
4. PROJECT TITLE IMPROVE WHERRY HOUSING (PHASE 3 OF 5)		5. PROJECT NUMBER GJKZ830023P3

normal wear and tear to the point where they require replacement. Some roofs, structural framing, and sheetrock require repair or replacement.
IMPACT IF NOT PROVIDED: Air Force military families will continue to suffer from an inappropriately low quality of life environment. This will continue to affect morale and all volunteer force retention.
WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None
WORK PROGRAMMED FOR NEXT THREE YEARS: None
ADDITIONAL: An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, revitalization was found to be the most cost efficient over the life of the project. This project meets the criteria/scope specified in Part II of Military Handbook 1190, 'Facility Planning and Design Guide'.

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION RAMSTEIN AB, GERMANY		4. PROJECT TITLE IMPROVE GENERAL OFFICER QUARTERS	
5. PROGRAM ELEMENT 8.87.42	6. CATEGORY CODE 711-161	7. PROJECT NUMBER TYFR869000A	8. PROJECT COST($000) 124

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
IMPROVE GENERAL OFFICER QUARTERS	UN	1	114,000	114
SUBTOTAL				114
CONTINGENCY (5%)				6
TOTAL CONTRACT COST				120
SUPERVISION, INSPECTION AND OVERHEAD (3%)				4
TOTAL REQUEST				124
MOST EXPENSIVE UNIT $124,000				
AREA COST FACTOR 1.15				

10. Description of Proposed Construction: Improve one Deutschmark family housing unit (General Officer Quarters). Build a 116 SF addition to the kitchen. Replace kitchen appliances, cabinets, and fixtures. Repair roof, including the garage and terrace areas. Construct enclosed patio.

11. PROJECT: Provides improvements and repairs to the CINCUSAFE/CC general officer quarters #1013.

REQUIREMENT: Provide quarters that are adequately sized, suitably appointed and functionally arranged to support domestic, diplomatic and status requirements of this position. Kitchen expansion will provide a food preparation area large enough to support entertainment functions for dignitaries and VIP guests. Winter garden expansion will provide a quiet, soothing area in which guests and residents can relax. These repairs and upgrades will extend the useful life of the facility and provide reduced future maintenance costs.

CURRENT SITUATION: These quarters were built in 1958 to accommodate the Twelfth Air Force Commander (a predecessor of Seventeenth Air Force). They were designed to the architectural standards of 30 years ago and to the needs of a commander with a considerably smaller military and political role than the current occupant. The kitchen facilities (179 SF) are grossly undersized and lack the appliances and fixtures needed to support food preparation and service activities for social, political and diplomatic CINCUSAFE functions hosted in residence. These functions, when presented in an informal, personal setting, present and promote a very positive CINCUSAFE image. All other areas of the home are at the minimum adequate sizes to support their intended functions. The interior rooms can't be reconfigured to satisfy the added kitchen or dining requirement without sacrificing their own usefulness. The roof is at the end of its

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION RAMSTEIN AB, GERMANY		
4. PROJECT TITLE IMPROVE GENERAL OFFICER QUARTERS		5. PROJECT NUMBER TYFR869000A

expected life cycle and must be replaced in order to extend use of the building.

IMPACT IF NOT PROVIDED: Kitchen facilities will continue to fall far short of the requirement. The roof will enter a failure mode, requiring ever increasing piecemeal repair and developing structural damage due to water leakage. Repairs will cost more in the future.

WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: FY88: Roof and entrance gate repairs, and grounds maintenance for a total of $11,000.

WORK PROGRAMMED FOR NEXT THREE YEARS: None

ADDITIONAL: An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, revitalization was found to be the most cost efficient over the life of the project. This project is not eligible for NATO funding. This project meets the criteria/scope specified in Part II of Military Handbook 1190, 'Facility Planning and Design Guide'.

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1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)		2. DATE
3. INSTALLATION AND LOCATION RAMSTEIN AB, GERMANY		4. PROJECT TITLE IMPROVE FAMILY HOUSING	
5. PROGRAM ELEMENT 8.87.42	6. CATEGORY CODE 711-161	7. PROJECT NUMBER TYFR904002	8. PROJECT COST($000) 2,085

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
IMPROVE FAMILY HOUSING	UN	54	35,704	1,928
SUBTOTAL				1,928
CONTINGENCY (5%)				96
TOTAL CONTRACT COST				2,024
SUPERVISION, INSPECTION AND OVERHEAD (3%)				61
TOTAL REQUEST				2,085
MOST EXPENSIVE UNIT $76,000				
AREA COST FACTOR 1.15				

10. Description of Proposed Construction: Improve 54 Deutschmark family housing units. Renovate kitchen, replace closets, cabinets, doors, water, sewage & heat lines, electrical system. Provide 110V outlets. Install dishwashers, dryers, washers, exhaust hoods. Replace roofs.

11. PROJECT: Provides improvements, maintenace and repairs to 54 military family housing Units at Ramstein AB, Germany.

REQUIREMENT: Project is required to provide adequate quarters for military members and their dependents. Project extends the life of the building components consistent with the overall life of the facility, AFM 88-25 and current energy standards.

CURRENT SITUATION: These housing units were constructed in 1955 and have received no major renovations except new double pane windows and exterior siding. Normal routine work and change of occupancy maintenance were provided since construction. Kitchens, bathrooms, floor coverings, cabinets, countertops, sinks, doors and utilities systems have deteriorated from constant use and action of the elements. The two-wire unsafe electrical distribution system has frayed insulation and must be replaced by a three-wire grounded system. Roofs are leaking and require constant repair.

IMPACT IF NOT PROVIDED: The Ramstein housing units will deteriorate to a more costly to repair level. Also Air Force members and their dependents would continue to be housed in unsatisfactory conditions.

WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None

WORK PROGRAMMED FOR NEXT THREE YEARS: None

ADDITIONAL: This project is not eligible for NATO funding. This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION RAMSTEIN AB, GERMANY		
4. PROJECT TITLE IMPROVE FAMILY HOUSING		5. PROJECT NUMBER TYFR904002

"Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION RAMSTEIN AB, GERMANY	4. PROJECT TITLE IMPROVE FAMILY HOUSING

5. PROGRAM ELEMENT 8.87.42	6. CATEGORY CODE 711-161	7. PROJECT NUMBER TYFR914002	8. PROJECT COST($000) 3,440

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
IMPROVE FAMILY HOUSING	UN	90	35,344	3,181
SUBTOTAL				3,181
CONTINGENCY (5%)				159
TOTAL CONTRACT COST				3,340
SUPERVISION, INSPECTION AND OVERHEAD (3%)				100
TOTAL REQUEST				3,440
MOST EXPENSIVE UNIT $80,450				
AREA COST FACTOR 1.15				

10. Description of Proposed Construction: Improve 90 Deutschmark family housing units. Renovate kitchen, replace closets, cabinets, doors; replace water, sewage, and heat lines, electrical system. Provide 110V outlets. Install dishwashers, dryers, washers, exhaust hoods. Replace roofs.

11. PROJECT: Provides improvements, maintenance and repairs to 90 military family housing units at Vogelweh, Germany.

REQUIREMENT: Project is required to provide adequate quarters for military members and their dependents assigned to this installation. Project extends the life of the building components consistent with the overall life of the facility, AFM 88-25 and current energy standard.

CURRENT SITUATION: These housing units were constructed in 1955 and have received no major renovations except new double pane windows and exterior siding. Normal routine work and change of occupancy maintenance were provided since construction. Kitchens, bathrooms, floor coverings, cabinets, countertops, sinks, doors and utilities systems have deteriorated from constant use and action of the elements. The two-wire unsafe electrical distribution system has frayed insulation and must be replaced by a three-wire grounded system. Roofs are leaking and require constant repair.

IMPACT IF NOT PROVIDED: These housing units will deteriorate to a more costly to repair level. Air Force members and their dependents would continue to be housed in unsatisfactory conditions affecting morale and the retention of quality personnel.

WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: Included the replacement of windows and exterior siding for a total of $232,000.

WORK PROGRAMMED FOR NEXT THREE YEARS: None

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION RAMSTEIN AB, GERMANY		
4. PROJECT TITLE IMPROVE FAMILY HOUSING		5. PROJECT NUMBER TYFR914002

WORK PROGRAMMED FOR NEXT THREE YEARS: None
ADDITIONAL: An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, revitalization was found to be the most cost efficient over the life of the project. This project is not eligible for NATO funding. This project meets the criteria/scope specified in Part II of Military Handbook 1190, 'Facility Planning and Design Guide'.

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION KADENA AB, JAPAN	4. PROJECT TITLE IMPROVE FAMILY HOUSING

5. PROGRAM ELEMENT 8.87.42	6. CATEGORY CODE 711-143	7. PROJECT NUMBER EVKP906482	8. PROJECT COST($000) 6,208

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
IMPROVE FAMILY HOUSING	UN	75	76,533	5,740
SUBTOTAL				5,740
CONTINGENCY (5%)				287
TOTAL CONTRACT COST				6,027
SUPERVISION, INSPECTION AND OVERHEAD (3%)				181
TOTAL REQUEST				6,208
MOST EXPENSIVE UNIT $97,416				
AREA COST FACTOR 1.99				

10. Description of Proposed Construction: Improve 75 Appropriated units (FY50-69). Renovate kitchens/bathrooms, install garbage disposals, dishwashers, replace interior electrical wiring/water lines, flooring, exterior service lines, replace windows, repair roofs, upgrade or install HVAC systems, paint interior/exterior masonry walls and woodwork. Construct storage sheds, provide landscaping, remove asbestos materials.

11. PROJECT: Provides for improvements and repairs to 75 family housing units (75 field/company grade quarters).

REQUIREMENT: Project is required to provide adequate quarters for military personnel and their families assigned to this installation. This is the second increment of a two (2) increment program which will renovate a total of 150 units (increments 1 & 2 are both programmed in FY90). In addition to improvements to dwelling units, this project provides exterior storage and improves landscaping.

CURRENT SITUATION: These units were constructed in the 1950's and have not received any major renovations. The bathrooms require the replacement of all fixtures. The kitchens require reconfiguraion to provide adequate storage, cabinet and countertop areas. A unit by unit survey identified 150 units requiring exterior storage sheds for lawn/garden equipment. Infiltration problems with existing windows and doors is a constant complaint of the occupants, particularly during the typhoon season when leaking causes interior water damage to government and personal property. The existing HVAC systems are inefficient.

IMPACT IF NOT PROVIDED: Air Force members and their families would continue to be housed in unsatisfactory conditions, affecting morale and the retention of quality personnel.

WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION KADENA AB, JAPAN		
4. PROJECT TITLE IMPROVE FAMILY HOUSING		5. PROJECT NUMBER EVKP906482

WORK PROGRAMMED FOR NEXT THREE YEARS: None

ADDITIONAL: The replacement cost for these units varies from $264,100 to $330,125 per unit. The total work included in this project represents a maximum of 32 percent of the replacement cost of an individual unit. An economic analysis has been prepared comparing the alternatives of revitalization and status quo operation. Based on the net present values and benefits of the respective alternatives, revitalization was found to be the most cost efficient over the life of the project. This project is not elegible for JFIP funding. This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION KADENA AB, JAPAN	4. PROJECT TITLE IMPROVE FAMILY HOUSING

5. PROGRAM ELEMENT 8.87.42	6. CATEGORY CODE 711-143	7. PROJECT NUMBER EVKP916001	8. PROJECT COST($000) 6,028

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
IMPROVE FAMILY HOUSING	UN	98	56,867	5,573
SUBTOTAL				5,573
CONTINGENCY (5%)				279
TOTAL CONTRACT COST				5,852
SUPERVISION, INSPECTION AND OVERHEAD (3%)				176
TOTAL REQUEST				6,028
MOST EXPENSIVE UNIT $90,575				
AREA COST FACTOR 1.99				

10. Description of Proposed Construction: Improve 98 Appropriated units (FY50-69). Renovate kitchen/bathrooms; install garbage disposals, dishwashers, replace electrical wiring, windows, flooring, interior water lines and exterior service lines; upgrade or install central HVAC systems; repair roofs, paint interior/exterior masonry walls and woodwork; Construct storage sheds; provide landscaping; remove asbestos materials.

11. PROJECT: Provides for improvements and repairs to 98 family housing units (98 enlisted quarters).

REQUIREMENT: Project is required to provide adequate quarters for military personnel and their families assigned to this installation. In addition to improvements to dwelling unit, this project provides exterior storage and improves landscaping.

CURRENT SITUATION: These units were constructed in the 1950's and have not received any major renovations. The bathrooms require the replacement of all fixtures. The kitchens require reconfiguration to provide adequate storage, cabinet and countertop areas. A unit by unit survey identified 209 units requiring exterior storage sheds for lawn/garden equipment. Infiltration problems with existing windows and doors are a constant complaint of the occupants, particularly during the typhoon season when leaking causes interior water damage to government and personal property. The existing HVAC systems are inefficient.

IMPACT IF NOT PROVIDED: Air Force members and their families would continue to be housed in unsatisfactory conditions, affecting morale and the retention of quality personnel.

WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None

WORK PROGRAMMED FOR NEXT THREE YEARS: None

ADDITIONAL: The replacement cost for these units varies from $264,100 to

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION KADENA AB, JAPAN		
4. PROJECT TITLE IMPROVE FAMILY HOUSING		5. PROJECT NUMBER EVKP916001

$330,125 per unit. The total work included in this project represents a maximum of 28 percent of the replacement cost of an individual unit. An economic analysis has been prepared comparing the alternatives of revitalization and status quo operation. Based on the net present values and benefits of the respective alternatives, revitalization was found to be the most cost efficient over the life of the project. This project is not elegible for JFIP funding. This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION MORON AB, SPAIN	4. PROJECT TITLE IMPROVE FAMILY HOUSING

5. PROGRAM ELEMENT 8.87.42	6. CATEGORY CODE 711-151	7. PROJECT NUMBER QUUG904001	8. PROJECT COST($000) 2,107

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
IMPROVE FAMILY HOUSING	UN	36	54,139	1,949
SUBTOTAL				1,949
CONTINGENCY (5%)				97
TOTAL CONTRACT COST				2,046
SUPERVISION, INSPECTION AND OVERHEAD (3%)				61
TOTAL REQUEST				2,107
MOST EXPENSIVE UNIT $59,000				
AREA COST FACTOR 0.95				

10. Description of Proposed Construction: Improve 36 Moron family housing units. Renovate/upgrade kitchens, dining, bathrooms, bedrooms, laundry, entry ways, plumbing and interior electrical utilities. Install air conditioning; install second bathroom. Replace windows; install ceilings; replace floor covering; enlarge patios; construct storage areas; install fence.

11. PROJECT: Provides for improvements and repairs to 36 MFH units (2 field grade quarters, 2 company grade quarters, 8 senior enlisted quarters and 24 junior enlisted quarters).

REQUIREMENT: This project is required to provide adequate quarters for military members and their dependents assigned to this installation. These living units must provide sufficient space and the degree of privacy necessary for family unity, proper rest and relaxation, and other/all things conducive to an ideal community environment. Modern, well arranged and aesthetically pleasing quarters will help attract and retain competent and highly skilled professional military personnel, which are essential for maintaining an efficient and and effective all volunteer Air Force.

CURRENT SITUATION: The only major repairs/improvements made to these quarters, since constructed in 1958, is the replacement of doors and windows, with aluminum framed units, in FY 83. Otherwise, only routine maintenance and the "change of occupancy" maintenance and repairs have been accomplished on these structures. The kitchen requires reconfiguration to provide for better space utilization; the cabinets (both base and wall units) and countertops need replacement; there are no range hoods, garbage disposals or dishwashers installed; the dining areas are small; bathroom fixtures and accessories all need to be replaced; the laundry areas are located outside, with access through the kitchen.

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION MORON AB, SPAIN		
4. PROJECT TITLE IMPROVE FAMILY HOUSING		5. PROJECT NUMBER QUUG904001

IMPACT IF NOT PROVIDED: Air Force members and their families will continue to be housed in unsatisfactory conditions, affecting the morale and the retention of quality personnel.

WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None

WORK PROGRAMMED FOR NEXT THREE YEARS: None

ADDITIONAL: An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, revitalization was found to be the most cost efficient over the life of the project. This project is not eligible for NATO funding. This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION RAF CHICKSANDS, UNITED KINGDOM	4. PROJECT TITLE IMPROVE FAMILY HOUSING (PHASE 2 OF 12)

5. PROGRAM ELEMENT	6. CATEGORY CODE	7. PROJECT NUMBER	8. PROJECT COST($000)
8.87.42	711-151	DPWD914001	2,647

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
IMPROVE FAMILY HOUSING	UN	34	73,059	2,484
SUBTOTAL				2,484
CONTINGENCY (5%)				124
TOTAL CONTRACT COST				2,608
SUPERVISION, INSPECTION AND OVERHEAD (1.5%)				39
TOTAL REQUEST				2,647
MOST EXPENSIVE UNIT $90,000				
AREA COST FACTOR 1.50				

10. Description of Proposed Construction: Improve 34 military family housing units. Add utility and bath areas. Upgrade kitchens and existing bathrooms. Renovate interiors throughout. Repair exterior siding. Provide additional cabinets, counters and closet space. Renovate heating and electrical systems. Repair doors. Add living room extension to one SGO quarters.

11. PROJECT: Provide improvements and repairs to 34 military family housing units at RAF Chicksands, UK.

REQUIREMENT: Enhance housing community environment. It is the second of a twelve-phase program which will renovate 411 units. In addition to improvements to dwelling units, this project provides an exercise track winding through the housing areas and three new play areas with seating for adults.

CURRENT SITUATION: The surplus commodity units were constructed in 1960-1961 and the appropriated units between 1967 and 1971. Three-bedroom units and two-bedroom units have only one full bath. Of the 40 (four bedroom) units, 37 only have 1 1/2 baths. Washers and dryers are currently located in the kitchen for two and three-bedroom units and there is no room for occupant owned freezers. Storage space is very limited and roofs of sheds either do not cover entire area or are of vinyl corrugated sheeting, which is unsightly and difficult to maintain. Only 62 units have a dishwasher and garbage disposal and none have range hoods. Present heating systems are becoming unreliable and uneconomical. Parking is either along the street or in open areas with no protection from the elements. Fences are self-help and not uniform. Play areas do not have adequate equipment with appropriate safe-fall features or suitable seating for accompanying adults.

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION RAF CHICKSANDS, UNITED KINGDOM		
4. PROJECT TITLE IMPROVE FAMILY HOUSING (PHASE 2 OF 12)		5. PROJECT NUMBER DPWD914001

IMPACT IF NOT PROVIDED: Air Force members and their families would continue to be housed in unsatisfactory conditions, affecting morale and the retention of quality personnel.
WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None
WORK PROGRAMMED FOR NEXT THREE YEARS: None
ADDITIONAL: Work in this project represents a maximum of 30 percent of the replacement cost of an individual unit. The proposed project should provide adequate housing for another 20 years without additional major investments other than routine and cyclical repairs. An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, revitalization was found to be the most cost efficient over the life of the project. This project is not eligible for NATO funding. This project meets the criteria/scope specified in Part II of Military Handbook 1190, 'Facility Planning and Design Guide'.

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION RAF KEMBLE, UNITED KINGDOM	4. PROJECT TITLE IMPROVE FAMILY HOUSING

5. PROGRAM ELEMENT 8.87.42	6. CATEGORY CODE 711-181	7. PROJECT NUMBER UHHZ870615	8. PROJECT COST($000) 120

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
IMPROVE FAMILY HOUSING	UN	2	56,000	112
SUBTOTAL				112
CONTINGENCY (5%)				6
TOTAL CONTRACT COST				118
SUPERVISION, INSPECTION AND OVERHEAD (1.5%)				2
TOTAL REQUEST				120
MOST EXPENSIVE UNIT $60,000				
AREA COST FACTOR 1.49				

10. Description of Proposed Construction: Improve 2 family housing units. Alter heat and electrical systems. Construct/remove internal walls, replace windows with double paned windows, replace worn interior/exterior doors. Upgrade kitchen and baths. Provide half bath on the first floor and 3/4 bath on second floor.

11. PROJECT: Provides for improvements and alteration of four apartments into two field grade quarters.

REQUIREMENT: Project is required to provide adequate quarters for military members and their families assigned to this installation. Upgrade MFH units to current Air Force standards for size, layout and amenities. Add 114 SF to each unit, form openings in walls to convert 4 units into 2 field grade officer units. Upgrade electrical system to modern standards, provide washer and dryer utility connections.

CURRENT SITUATION: These housing units were built in the early 1950's, and are excess to the Royal Air Force's requirements and have been designated for use by the USAF at RAF Kemble. No major repair or improvements have been accomplished on the units since construction. The units are small, 642 SF (net), and cramped. The electrical system is outdated and does not meet the standards of the National Electrical Code. The space in the units is not effectively used nor are there adequate baths in the units. The alteration will improve the flow in the unit. The kitchen cabinets and fixtures require replacement. The net floor area of the units is below the minimum standard for officers housing. There are 14 officers assigned to this installation and only 5 MFH units are available on base at this time. The existing floor plans, utilities and location of these units indicates that they can easily be renovated into MFH units for FGO's, as recommended by a 1985 PAT study.

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION

RAF KEMBLE, UNITED KINGDOM

4. PROJECT TITLE IMPROVE FAMILY HOUSING	5. PROJECT NUMBER UHHZ870615

IMPACT IF NOT PROVIDED: The units will remain cramped and small. Air Force members and their families would continue to be housed in unsatisfactory conditions, affecting morale and retention of quality personnel.

WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None

WORK PROGRAMMED FOR NEXT THREE YEARS: None

ADDITIONAL: This project meets the criteria/scope specified in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION RAF LAKENHEATH, UK (FELTWELL)	4. PROJECT TITLE IMPROVE FAMILY HOUSING

5. PROGRAM ELEMENT 8.87.42	6. CATEGORY CODE 711-181	7. PROJECT NUMBER MSET900002	8. PROJECT COST($000) 892

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
IMPROVE FAMILY HOUSING	UN	10	83,700	837
SUBTOTAL				837
CONTINGENCY (5%)				42
TOTAL CONTRACT COST				879
SUPERVISION, INSPECTION AND OVERHEAD (1.5%)				13
TOTAL REQUEST				892
MOST EXPENSIVE UNIT $89,200				
AREA COST FACTOR 1.50				

10. Description of Proposed Construction: Improve 10 family housing units. Enlarge patio. Refinish interior, including kitchen and bath. Replace doors, windows. Upgrade electrical, heating systems. Increase insulation. Repair exterior. Improve floor plan, install stove, exhaust hood, dishwasher and LPG (low pressure gas) system.

11. PROJECT: Improve and repair 10 military family housing units at Feltwell, UK.

REQUIREMENT: To extend the life of the interior and exterior components consistent with the overall structural life of the unit, and to bring the units up to USAF standards.

CURRENT SITUATION: Minor repair efforts cannot keep pace with the deterioration of the houses. These units were constructed as early as 1935 and as late as 1960, to the building codes of the time, and major repairs are necessary to keep them up to standards. The bathrooms require replacement of all fixtures. The kitchens require reconfiguration to provide adequate storage, cabinet and countertop areas. Windows allow infiltration. The electrical, water, sewage and drainage lines are inefficient and require excessive maintenance. Heating with oil and electricity is inefficient and costly.

IMPACT IF NOT PROVIDED: Quality of life will be adversely affected as deterioration continues. The longer repairs and minor construction are put off, the more costly the project to improve them becomes, possibly with the impact of having these units downgraded to substandard.

WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None

WORK PROGRAMMED FOR NEXT THREE YEARS: None

ADDITIONAL: Replacement cost = $156,000. An economic analysis has been prepared comparing the alternatives of new construction, revitalization,

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION RAF LAKENHEATH, UK (FELTWELL)		
4. PROJECT TITLE IMPROVE FAMILY HOUSING		5. PROJECT NUMBER MSET900002

leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, revitalization was found to be the most cost efficient over the life of the project. This project is not eligible for NATO funding. This project meets the criteria/scope specified in Part II of Military Handbook 1190, 'Facility Planning and Design Guide'.

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION RAF LAKENHEATH, UNITED KINGDOM	4. PROJECT TITLE IMPROVE FAMILY HOUSING

5. PROGRAM ELEMENT 8.87.42	6. CATEGORY CODE 711-181	7. PROJECT NUMBER MSET900003	8. PROJECT COST($000) 2,985

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
IMPROVE FAMILY,HOUSING	UN	60	46,683	2,801
SUBTOTAL				2,801
CONTINGENCY (5%)				140
TOTAL CONTRACT COST				2,941
SUPERVISION, INSPECTION AND OVERHEAD (1.5%)				44
TOTAL REQUEST				2,985
MOST EXPENSIVE UNIT $50,000				
AREA COST FACTOR 1.50				

10. Description of Proposed Construction: Improve 60 military family housing units. Add half-bath, laundry room, storage room, and exterior sheds. Renovate kitchen and bath. Replace windows, doors, and frames. Repair and upgrade utilities. Repair exterior, repaint.

11. PROJECT: Provide improvements and repairs to 60 military family housing units at RAF Lakenheath, UK.
REQUIREMENT: To extend the life of the interior and exterior components consistent with the overall structural life of the unit, and to bring them up to USAF standards. Project is required to provide adequate quarters for military members and their families assigned to this installation.
CURRENT SITUATION: These units were constructed in the 1960's and have received no major renovation, other than routine and change of occupancy maintenance, since construction. The bathrooms require replacement of all original fixtures. The kitchens require reconfiguration to provide adequate storage, cabinet and countertop areas. Infiltration problem with the existing windows is a constant complaint of the occupants, particularly during the winter season when drafts cause discomfort. The electrical, water, sewage drainage, and heating lines are inefficient and require excessive maintenance. There is no laundry room, (washer and dryer are located in the kitchen) or half-bath on the ground floor.
IMPACT IF NOT PROVIDED: Quality of life will be adversely affected as deterioration continues. The longer repairs and minor construction are put off, the more costly the project to improve will become.
WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None
WORK PROGRAMMED FOR NEXT THREE YEARS: None
ADDITIONAL: Replacement cost = $155,000. An economic analysis has been prepared comparing the alternatives of new construction, revitalization,

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION RAF LAKENHEATH, UNITED KINGDOM		
4. PROJECT TITLE IMPROVE FAMILY HOUSING		5. PROJECT NUMBER MSET900003

leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, revitalization was found to be the most cost efficient over the life of the project. This project is not eligible for NATO funding. This project meets the criteria/scope specified in Part II of Military Handbook 1190, 'Facility Planning and Design Guide'.

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION RAF LAKENHEATH, UNITED KINGDOM	4. PROJECT TITLE IMPROVE FAMILY HOUSING

5. PROGRAM ELEMENT 8.87.42	6. CATEGORY CODE 711-151	7. PROJECT NUMBER MSET900007	8. PROJECT COST($000) 940

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
IMPROVE FAMILY HOUSING	UN	14	63,000	882
SUBTOTAL				882
CONTINGENCY (5%)				44
TOTAL CONTRACT COST				926
SUPERVISION, INSPECTION AND OVERHEAD (1.5%)				14
TOTAL REQUEST				940
MOST EXPENSIVE UNIT $67,200				
AREA COST FACTOR 1.50				

10. Description of Proposed Construction: Improve 14 family housing units. Add one bedroom with master bath, laundry room, entryway, storage, and half-bath. Improve existing floorplan. Enlarge patio, install dishwasher, stove, garbage disposal, and range hood. Replace floor tiles, paint, replace cabinets. Replace bathtub and water closet, exhaust fan, doors and frames, windows. Upgrade utilities.

11. PROJECT: Improve and repair 14 military family housing units at RAF Lakenheath, UK.

REQUIREMENT: To extend the life of the interior and exterior components consistent with the overall structural life of the unit, and to bring them up to USAF standards. Extension is required to accommodate senior and field grade officers on RAF Lakenheath, most of whom are required to live on base.

CURRENT SITUATION: These units were constructed in 1961 and have received no major renovation, other than routine work and change of occupancy maintenance, since construction. The bathrooms require replacement of all original fixtures. The kitchens require reconfiguration to provide adequate storage, cabinet and countertop areas. As there is a shortage of four-bedroom units, a bedroom and bath addition is required. There is no laundry room (washer and dryer are located in the kitchen), no guest closet or half-bath on ground floor. Infiltration problems with the existing windows is a constant complaint of the occupants. The electrical, water, drainage, sewage, and heating lines are inefficient and require excessive maintenance.

IMPACT IF NOT PROVIDED: Quality of life will be adversely affected as deterioration continues. The longer repairs and minor construction are put off, the more costly the project to improve them becomes, possibly

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE
3. INSTALLATION AND LOCATION RAF LAKENHEATH, UNITED KINGDOM		
4. PROJECT TITLE IMPROVE FAMILY HOUSING		5. PROJECT NUMBER MSET900007

with the impact of having these units downgraded to substandard. Also, senior and field grade officers on RAF Lakenheath will not be adequately housed on base.

WORK ACCOMPLISHED IN PREVIOUS THREE YEARS: None

WORK PROGRAMMED FOR NEXT THREE YEARS: None

ADDITIONAL: Replacement cost = $186,000. An economic analysis has been prepared comparing the alternatives of new construction, revitalization, leasing and status quo operation. Based on the net present values and benefits of the respective alternatives, revitalization was found to be the most cost efficient over the life of the project. This project is not eligible for NATO funding. This project meets the criteria/scope specified in Part II of Military Handbook 1190, 'Facility Planning and Design Guide'.

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1991 BUDGET REQUEST

ADVANCE PLANNING AND DESIGN

Program (In Thousands)
FY 1991 Program $6,000
FY 1990 Program $8,000

Purpose and Scope

This program provides for preliminary studies to develop additional family housing facilities, one time multi-phase design, and housing community plan (HCP) developments; studies for site adaptation and determination of type and design of units; and working drawings, specifications, estimates, project planning reports and final design drawings of family housing construction projects. This includes the use of architectural and engineering services in connection with any family housing new or post acquisition construction and the installment funding program.

Program Summary

Authorization is requested for:

(1) Advance planning and design for future year housing programs; and
(2) Appropriation of $6,000,000 to fund this effort as outlined in the following exhibit:

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION VARIOUS AIR FORCE BASES	4. PROJECT TITLE FAMILY HOUSING ADVANCE PLANNING AND DESIGN

5. PROGRAM ELEMENT 8.87.42	6. CATEGORY CODE 711-000	7. PROJECT NUMBER XXXX91000PAD	8. PROJECT COST($000) 6,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
FAMILY HOUSING ADVANCE PLANNING AND DESIGN	LS			6,000
SUBTOTAL				6,000
TOTAL CONTRACT COST				6,000
TOTAL REQUEST				6,000

10. Description of Proposed Construction: Architect-engineer services, surveys, fees, etc., in connection with advance planning and design of family housing dwelling units and properties included in or proposed for the Air Force Family Housing Account.

11. PROJECT:

REQUIREMENT: The funds requested are necessary to procure architect-engineer services to make site and utility investigations; one time multi-phase design, and housing community plan (HCP) developments; for the preparation of design and specifications of advance plans for future year housing programs in connection with any family housing new or post acquisition construction and the installment funding program.

IMPACT IF NOT PROVIDED: The increase in funds is neccessary to support the development of the Housing Community Plans and to support the increasing new construction and post acquisition construction program.

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1991 BUDGET REQUEST

OPERATIONS, UTILITIES AND MAINTENANCE
(Excluding Leasing and Debt)

Program (In Thousands)
FY 1991 Program $678,308
FY 1990 Program $645,718

Purpose and Scope

a. Operations. This portion of the program provides for operating expenses in the following sub-accounts:

(1) Management. Includes installation-level management such as housing office operations, quality assurance evaluators, administrative support, community liaison, and annual service fee paid to the Corporation-Trust Company to provide the required corporate presence in Delaware. United States Air Force Housing, Inc., continues as the entity holding title to Capehart and Wherry real property. Housing referral costs are also included; the housing referral program assists personnel to find quarters in the private sector and implements the Fair Housing Act of 1968.

(2) Services. Provides basic support services such as refuse collection and disposal; fire and police protection; entomology and pest control; snow removal, street cleaning.

(3) Furnishings. Procures household equipment (primarily stoves and refrigerators) and, in limited circumstances, furniture; controls furnishings inventories; maintains and repairs such items.

(4) Miscellaneous. Includes mobile home hookups, leased office and warehouse space supporting family housing, payments to other Federal agencies or foreign governments to operate Permit Housing units occupied by Air Force personnel, and similar costs.

b. Utilities. Includes all utilities serving family housing, purchased and base produced, except telephone.

c. Maintenance. Provides upkeep of family housing real property, as follows:

(1) Maintenance/Repair of Dwellings. Service calls, routine maintenance, repairs and replacement, and contract cleaning of government quarters after change of occupancy maintenance.

(2) Exterior Utilities. Maintenance and repair of water, sewer, electric, heat and gas lines located within family housing areas.

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1991 BUDGET REQUEST

(3) Other Real Property. Upkeep of grounds, roads, parking areas, and other reserved property for the exclusive use of family housing not shown above.

(4) Alteration and Additions. Minor alterations to dwellings or housing support facilities. Larger scope or higher dollar value items are funded in the construction program.

Operations and Maintenance Program Summary - Highlights

Authorization/Appropriation is requested in FY 1991 for $678,308,000. This amount, together with estimated reimbursements of $9,500,000, will fund the FY 1991 Operations and Maintenance program of $687,808,000.

A summary of the funding program for FY 91 follows (in thousands):

Operations Request	Utilities Request	Maintenance Request	Total Direct Request	Reimbursements	Total Program
$128,289	$223,097	$326,922	$678,308	$9,500	$687,808

The Air Force family housing budget requests minimum essential resources to provide military families with housing either in the private market, through assistance from a housing referral office, or in government housing. The living conditions of many military families throughout the world are far less than desirable. Therefore, increased emphasis has been placed on the proper funding of the family housing operations and maintenance program. The Air Force's FY 1991 Operations and Maintenance program includes the following areas of emphasis:

* Utility consumption per unit is being reduced due to a program of energy goals which places increased management emphasis on conservation.

* Funding for government appliances and furniture consistent with cost/benefit studies and the delivery of new housing units which need government supplied appliances.

* Acquiring part of the furniture necessary to meet Air Force responsibilities as the designated housing manager for all services on Okinawa. This includes support to the Marine Corps for their increase to 5,000 accompanied tours on Okinawa.

* Continuing the special effort to lower high operations and maintenance costs in high cost quarters.

* In response to FY 90 Congressional report language, the amount budgeted for contract cleaning in FY 91 is $11.1M which will fund the cleaning of the 55,500 units at an average cost of $200.00.

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1991 BUDGET REQUEST

Funding Level

This budget request is for funds needed to meet must pay operations and utilities accounts, as well as the maintenance and repair of our existing housing inventory at over 150 installations. Considering budget constraints, this FY 1991 request is only enough to stablize the inventory from further declines in livability and provide minimum essential support for about 141,000 housing units. We also provide referral services to another 162,000 members seeking housing in the private sector. The Air Force shares the concerns of Congress to improve support to military families and to properly maintain the housing inventory. This budget supports a long-range program responding to Congressional desires while considering the current environment of budget restraint.

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1991 BUDGET REQUEST

(EXCLUDES LEASE UNITS AND COSTS)

A. INVENTORY DATA	FY 1990 Estimate	FY 1991 Estimate
Units in Being Beginning of Year	139,543	140,218
Units in Being at End of year	140,218	141,398
Average Inventory for Year Requiring O&M	139,880	140,808
Funding		
a. Conterminous U.S.	360,957	379,874
b. U.S. Overseas	24,537	25,096
c. Foreign	260,224	273,338
d. Worldwide	645,718	678,308

B. FUNDING REQUIREMENTS	TOTAL EST ($000)	UNIT EST ($)	TOTAL EST ($000)	UNIT EST ($)
1. OPERATIONS				
a. Management	38,302	274	41,034	291
b. Services	24,458	175	24,532	174
c. Furnishings	54,295	388	55,164	392
d. Miscellaneous	7,268	52	7,559	54
Subtotal - Direct Obligations	124,323	889	128,289	911
Anticipated Reimbursements	1,412	10	1,436	11
Total Operations	125,735	899	129,725	922
2. UTILITIES				
Direct Obligations	221,956	1,587	223,097	1,584
Anticipated Reimbursements	6,859	49	6,930	49
Total Utilities	228,815	1,636	230,027	1,634
3. MAINTENANCE				
a. Maint & Repr, Dwelling	259,270	1,854	281,922	2,002
b. Maint & Repr, Exterior Utilities	14,285	102	16,344	116
c. Maint & Repr, Other Real Property	22,915	164	25,496	181
d. Alterations and Additions	2,969	21	3,160	22
Subtotal - Direct Obligations	299,439	2,141	326,922	2,321
Anticipated Reimbursements	1032	7	1,134	8
Total Maintenance	300,471	2,148	328,056	2,329
4. GRAND TOTAL O&M EXPENSES				
Direct Obligations	645,718	4,616	678,308	4,817
Anticipated Reimbursements	9,303	67	9,500	68
Total O&M (Incl. Reimb)	655,021	4,683	687,808	4,886

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1991 BUDGET REQUEST

Operations ($ in Thousands)	FY 1990 Est. Execution	FY 1991 Request
	$124,323	$128,338

The FY 1991 requested program represents Air Force family housing requirements using OMB approved inflation and foreign currency rates. Requirements reflect a program which is equivalent to the FY 1990 level of effort with increases for prescribed inflation, additional housing units, and initiatives. Each program sub-account is described in detail in the following analysis:

a. Management	FY 1990 Est. Execution	FY 1991 Request
	$38,302	$41,034

The FY 1991 request for family housing management resources is increased to support 928 additional housing units.

The requirements and adjustments are:	($ in Millions)
FY 1990 CURRENT ESTIMATE	$38.3
- Price Change	
- Inflation	+2.6
- Annualization of Foreign National Pay Raises	+1.1
- Foreign Currency Revaluation	-1.3
- Program Increase	
- Units Supported Increase	+.3
FY 1991 BUDGET REQUEST	$41.0

Analysis of Changes in Management
In the management sub-account there are increases due to inflation, pay raises for foreign national employees and additional units.

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1991 BUDGET REQUEST

b. Services

FY 1990 Est. Execution	FY 1991 Request
$24,458	$24,532

The request for services remains relatively stable from FY 1990 to FY 1991 with the $175 per unit cost for FY 1990 decreasing to $174 in FY 1991.

The requirements and adjustments are:	($ in Millions)
FY 1990 CURRENT ESTIMATE	$24.5
- Price Change	
- Annualization of Foreign National pay raises	+.1
- Inflation/price increases in contracts	+.4
- Foreign Currency Revaluation	-.3
- Program Increase	
- Units supported increase	+.2
- Program Decrease	
Reduction in Housing Support Requirements by increased Self-Help of Housing occupants	-.4
FY 1991 BUDGET REQUEST	$24.5

Analysis of Changes in Services
The FY 1991 budget has been increased by the added cost of the new housing inventory, esculation of contracts and Foreign National pay raises. These increases are offset by the cost saving efforts of our occupants.

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1991 BUDGET REQUEST

c. Furnishings

FY 1990 Est. Execution	FY 1991 Request
$54,295	$55,164

This account requests funding for essential furnishings at levels consistent with cost/benefit studies and the needs of the Air Force. If support is not provided in this manner, costs are incurred in the military allowance and other support appropriations which exceed these costs. The FY 1991 request for family housing furnishings increases to support an average of 928 additional housing units and the continuing support of Marine families on Okinawa.

The requirements and adjustments are:	($ in Millions)
FY 1990 CURRENT ESTIMATE	$54.3
- Price Change	
- Inflation in contracts	+3.5
- Foreign National Pay Raises	+ .7
- Foreign Currency Revaluation	-1.9
- Program Increase	
- Units supported increase	+1.7
- Program Decrease	
- Reduced furniture requirement from member using personal furniture on overseas assignment in Europe	-3.1
FY 1991 BUDGET REQUEST	$55.2

Analysis of Changes in Furnishing
The FY 91 President's Budget request is increased to reflect revised estimated execution of $55.2 million. Funding for furnishings in support of new Japan Facility Improvement Program (JFIP) units coming into the inventory during FY 92 must be funded in FY 91 due to the long pipeline for overseas bases. The revised FY 91 program also continues furnishings support for Marine families stationed in Okinawa.

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1991 BUDGET REQUEST

The FY 1991 estimate reflects continued reduction of furniture support in Europe and maintenance of the programs in Japan and the Philippines. Even though the shipment and use of personally owned furniture is increasing as planned in Europe, certain furniture items will continue to be needed. Loaner sets of furniture are issued to military families overseas to let them occupy permanent quarters prior to the arrival of personally owned furniture and to let personnel stay in permanent quarters after furniture is shipped due to a change of station. Loaner sets reduce the cost of Temporary Lodging Allowance since families are not in temporary quarters drawing this allowance.

Other items of household furnishings normally built into U.S. houses which are limited or not available in foreign countries, such as wardrobes (clothes closets), kitchen cabinets or appliances, are issued to military families.

Initial issue of appliances to support newly leased housing units being added to the Air Force inventory and the furniture for new homes coming on line will necessitate added funding for furniture and appliances.

d. Miscellaneous

FY 1990 Est. Execution	FY 1991 Request
$7,268	$7,559

The requirements and adjustments are:	($ in Millions)
FY 1990 CURRENT ESTIMATE	$7.3
Price Increase _	
- Accommodation Charge Increase	+ .3
FY 1991 BUDGET REQUEST	$7.6

Analysis of Changes in Miscellaneous
The growth in accommodation charges for our occupancy of units owned by the United Kingdom and foreign currency losses in Germany are increasing miscellaneous requirements. These accommodation costs are incurred in accordance with requirements in host country agreements and are budgeted as "must pay" expenses.

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1991 BUDGET REQUEST

UTILITIES ($ in Thousands)

FY 1990 Est Execution	FY 1991 Request
$221,956	$223,097

This account provides utilities for worldwide housing assets. Included is electricity, heating, water, and sewage and waste systems.

	($ in Millions)
FY 1990 CURRENT ESTIMATE	$222.0
- Price Change	
- Inflation/Price growth for purchased utilities	+9.6
- Inflation/Price growth for other utilities	+2.1
- Foreign Currency Revaluation	-6.9
- Program Increase	
- Units supported increase	+.8
- Program Decrease	
- Consumption reduction and economies	-4.5
FY 1991 BUDGET REQUEST	$223.1

Analysis of Changes in Utilities

The request for utilities remains relatively stable from FY 1990 to FY 1991 with the per year unit cost of $1,587 for FY 1990 decreasing to $1,584 per unit in FY 1991. Adjustments to FY 1990 are based on historical obligation trends which continue to be influenced by mild weather and energy conservation savings resulting from Whole House improvements and Energy Conservation (ECIP) projects.

MFH facilities consume approximately one-fifth of Air Force facility energy; therefore, MFH residents and management have shared--and must continue to share--a significant role in the achievement of Air Force energy reduction goals. Since MFH occupants are not billed for their energy consumption, conservation motivation must be rooted in other than financial incentives. The single most effective incentive is command emphasis. Energy projects to install set back thermostats, water heater jacket insulation and insulation of crawl and attic spaces have had good results toward the attainment of Air Force energy conservation goals. It is the overall goal of the Air Force to achieve a one percent per year per square foot reduction in energy consumption in its MFH facilities starting from a baseline of FY 1985 through FY 1995. The funding stream depicted in the following table is consistent with this goal.

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1991 BUDGET REQUEST

UTILITIES

	FY 89	FY 90	FY 91
COST OF UTILITIES ($ in Thousands)	$211,763	$221,956	$223,097
UTILITY QUANTITIES			
Electricity (MWH)	2,055,904	2,083,042	2,089,707
Fuel Oil (Bbls)	566,468	574,257	575,983
Natural Gas (KCF)	8,133,392	8,176,635	8,202,800
Propane (Gal)	1,395,592	1,453,613	1,438,264
Coal (Short Tons)	53,321	53,654	53,225
Water (KGal)	25,673,060	25,986,271	26,069,427
Sewage (KGal)	18,989,420	19,050,459	19,111,420

The Budget request for utilities in FY 1991 includes the costs of electricity, coal, gas, fuel oil, water and sewage treatment. Overall, utility rates are stabilizing. Continued conservation efforts are reducing consumption and costs. We will serve 928 more housing units by the end of FY 1991, with the cost increase primarily caused by inflation which is offset by conservation efforts and foreign currency adjustments.

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1991 BUDGET REQUEST

Maintenance ($ in Thousands)

FY 1990 Est. Execution	FY 1991 Request
$299,439	$326,922

Air Force family housing assets are valued at over $11 billion in replacement value. Sound property management and economies dictate proper preservation and protection of these assets.

	($ in Millions)
FY 1990 CURRENT ESTIMATE	$299.4
- Price Change	
- Foreign Currency Revaluation	-6.9
- Inflation	+19.8
- Program Increase	
- Increased scheduled maintenance on deteriating units	+12.4
- Increase In Number of Units Supported	+2.2
FY 1991 BUDGET REQUEST	$326.9

Analysis of Changes in Maintenance Program

After several years of budget constraint and growth in the Deferred Maintenance backlog, the FY 89 maintenance funding amount was adequate for annual scheduled activity and a $7M reduction in the backlog. In FY 90 efforts on roofs, siding, water spouts etc will be done to stablize the housing inventory as much as possible with the reduced funding level available. In FY 91 the preventive maintenance program on dwelling units and streets will be emphaisized to continue the efforts to stablize the inventory and decrease the rate of deterioration of housing assets.

As the Air Force's housing inventory continues to age, the necessity for maintenance on the existing capital investment also increases. Previously limited maintenance funding in years before FY 89 and a high occupant turnover has accelerated deterioration of the Air Force's aging housing inventory. In spite of the emphasis on maintenance and repair of dwellings, current funding levels are sufficient only to assure availability of quarters for occupancy. Consequently, temporary fixes are performed while more permanent initiatives, are slipped. Deferring such work has exacerbated the rate of deterioration in our inventory.

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1991 BUDGET REQUEST

Backlog of Deferred Maintenance

In FY 82, consistent with Congressional concern, the Air Force proposed to reduce the housing maintenance backlog to a manageable level (one-half year's normal recurring maintenance) by FY 88. Instead, budget constraint has prevented reduction to the Deferred Maintenance and Repair Backlog (the DMAR) until FY 89.

Fortunately, the Air Forces' emphasis on whole house revitalization, via our Post Acquisition Improvement Program (PAIP), has reduced the load on our maintenance account. PAIP is composed of approximately 68 percent maintenance and repair type work. As shown in the table below, when the limited available maintenance funds are combined with efforts in PAIP the growth in DMAR is slowed. Given the supplemental efforts of the PAIP, we project a continuing reduction in the Deferred Maintenance and Repair backlog beginning in FY 92.

The following chart illustrates the backlog of deferred maintenance ($M):

Fiscal Year	FY 88	FY 89	FY 90	FY 91	FY 92	FY 93	FY 94
Backlog at Beginning of Year*	1,010	1,103	1,152	1,231	1,297	1,316	1,264
Normal Recurring Maintenance	410	425	439	453	466	479	493
Total Requirement	1,420	1,528	1,591	1,684	1,763	1,795	1,757
Funds Available							
Maintenance (P722)	293	331	299	327	348	401	418
PAIP (P713)	81	101	118	118	157	186	216
Backlog at End of Year	1,046	1,096	1,174	1,239	1,258	1,208	1,123
Backlog Reduction (Growth)	(36)	7	(22)	(8)	39	108	141

*Includes inflation and 1.7 percent asset deterioration from prior year

1. COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE

3. INSTALLATION AND LOCATION VARIOUS AIR FORCE BASES	4. PROJECT TITLE FAMILY HOUSING REPAIRS

5. PROGRAM ELEMENT 8.87.42	6. CATEGORY CODE 711-000	7. PROJECT NUMBER XXXX91000MAR	8. PROJECT COST($000) 20,030

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
FAMILY HOUSING REPAIRS	UN	606	33,053	20,030
SUBTOTAL				20,030
TOTAL CONTRACT COST				20,030
TOTAL REQUEST				20,030

10. Description of Proposed Construction: Projects include all work necessary to maintain these units by repairing and replacing worn and deteriorated kitchen and bath cabinets; repairing/replacing/maintaining floors, walls; repairing mechanical, electrical, and plumbing systems; replacing kitchen and bath fixtures and air conditioning systems; and repairing roof systems as required. (Continued on next page.)

11. PROJECT: Provides repairs in 606 units by replacing deteriorated components and/or building systems.
CURRENT SITUATION: These units vary in age from 15 to 80 years. The facility components and utility systems are deteriorated to the extent that normal maintenance is no longer effective.
ADDITIONAL: This information is provided to comply with the 1984 House Appropriations Committee language that requires the Services to report any expenditures from the maintenance account which will exceed $15,000 per unit.

1 COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2 DATE
3 INSTALLATION AND LOCATION VARIOUS AIR FORCE BASES		
4 PROJECT TITLE FAMILY HOUSING REPAIRS		5. PROJECT NUMBER N/A

STATE, INSTALLATION, & PROJECT	P-722 ($000) Current Working Estimate
UNITED STATES	
ALABAMA	
Maxwell AFS	
Provide repairs to 1 Appropriated unit - includes underpinning of foundation, stabilize foundation, correct site, and restore unit to an aceeptable appearance.	32
CALIFORNIA	
Los Angeles AFS	
Provide repairs to 8 Appropriated units - includes removal of asbestos insulation and replacing electrical and utility systems.	270
Vandenberg AFB	
Provide repairs to 27 Appropriated units and 41 Capehart units - includes replacement of roofs, windows, siding, plumbing fixtures, electrical wiring, kitchen cabinets, furnaces, fencing, and garage doors.	2,797
LOUISIANA	
Barksdale AFB	
Provide repairs to 69 Appropriated units - includes replacing wooden windows and doors with new energy efficient windows and doors. (Phase 1 of 3)	1,410
Provide repairs to 45 Appropriated units - includes replacing kitchen and bath fixtures and cabinets, breakfast and laundry room floors and wall covering, electrical outlets and interior painting. (Phase 1 of 3)	1,173

1 COMPONENT AIR FORCE	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2 DATE
3 INSTALLATION AND LOCATION VARIOUS AIR FORCE BASES		
4 PROJECT TITLE FAMILY HOUSING REPAIRS		5 PROJECT NUMBER N/A

STATE, INSTALLATION, & PROJECT	P-722 ($000) Current Working Estimate
MONTANA	
Malmstrom AFB	
Provides repairs to 4 Appropriated units - includes repair of sagging floors, renovation of the kitchen and bathrooms, and installation of GFCI electrical receptacles.	87
NEBRASKA	
Offutt AFB	
Provide repairs to 13 NCO units - includes repairing the exterior brick, steps, and doors, and window replacement.	399
WYOMING	
F.E. Warren AFB	
Provides repairs to 50 Appropriated units - includes replacing antiquated boilers, piping, controls, and radiators, as well as miscellaneous associated repairs.	1,000
OVERSEAS	
GERMANY	
Bitburg AB	
Provide repairs to 96 Deutschmark units - includes replacing kitchen and bath fixtures and cabinets, utility lines; repairing walls, floors, ceilings and laundry facilities.	3,519
Hahn AB	
Provide repairs to 32 Deutschmark units - includes replacing kitchen and bath fixtures and cabinets, utility lines; repairing walls, floors, ceilings and laundry facilities.	1,664

U.S. G.P.O. 1977-241-130/1215

1 COMPONENT AIR FORCE	FY 1981 MILITARY CONSTRUCTION PROJECT DATA	2 DATE
3 INSTALLATION AND LOCATION VARIOUS AIR FORCE BASES		
4 PROJECT TITLE FAMILY HOUSING REPAIRS		5 PROJECT NUMBER N/A

STATE, INSTALLATION, & PROJECT	P-722 ($000) Current Working Estimate
GERMANY (Cont.)	
Rhein-Main AB	
Provide repairs to 52 Deutschmark units - includes replacing heating and water lines, electrical wiring, light fixtures, kitchen cabinets, ceramic floors, wall tiles, floor coverings and interior painting.	3,532
Sembach (Pruem) AB	
Provide repairs to 18 Deutschmark units - includes replacing kitchen and bath fixtures, appliances and cabinets; repairing ceilings, walls, floors and laundry facilities.	794
GUAM	
Andersen AFB	
Provide repairs to 50 Appropriated units - includes replacing severely deteriorated elastomeric foam roofs with built-up roofs.	1,124
PHILIPPINES	
Clark AB	
Provide repairs to 100 Appropriated units - includes repair of roofs, kitchen areas, replacing floor tiles, bathroom fixtures, windows, exterior doors, electrical and mechanical systems, repairing interior walls, ceilings, and all associated work.	2,500

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1991 BUDGET REQUEST

General Officer Quarters

This information is provided in accordance with the reporting requirement established by the Conference Appropriations Committee Report 100-498, December 21, 1987. The report provides details for those general officer quarters for which maintenance and repair obligations in FY 91 are expected to exceed $25,000 per unit.

UNITED STATES

State/ Base	Qtrs ID	Size (NSF)	Year Built	FY90 M&R ($K)	Total Improv ($K FY86-90)
CALIFORNIA					
Los Angeles AFB	Quarters 2	2174	1918	45.0	0.0
	Quarters 11A	2357	1918	45.0	0.0
	Quarters 11B	2357	1918	45.0	0.0

Upgraded electrical service is provided by these projects for these sixty year-old homes, bringing them up to National Electric Code standards. The projects also replace utility systems, and remove asbestos.

State/ Base	Qtrs ID	Size (NSF)	Year Built	FY90 M&R ($K)	Total Improv ($K FY86-90)
DISTRICT OF COLUMBIA					
Bolling AFB	6 Units	2421	1933	282.0/unit	27.9

This project accomplishes complete maintenance and repair for these 55 year old units. The original roofs and windows will be replaced. Sunrooms will be rebuilt. New drywall ceilings and walls will replace existing unsafe original plaster. The complete electrical system will be replaced with a current National Electric Code system. A new central HVAC system will replace the three existing systems (radiant heat, resistor heat, and forced air A/C). The exterior groundwater drainage system will be replaced, and the entire brick exterior will be sandblasted and repointed. Upon completion of these repairs, no further major maintenance will be required for 20 years.

State/ Base	Qtrs ID	Size (NSF)	Year Built	FY90 M&R ($K)	Total Improv ($K FY86-90)
MISSOURI					
Whiteman AFB	1 Unit	2100	1955	57.0	10.2

In 1990, Whiteman AFB will become the first operational B-2 base. This project will allow conversion of an existing house into a GOQ. It will completely renovate 2 bathrooms, repair windows, replace siding and remove asbestos insulation from pipes.

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1991 BUDGET REQUEST

NEBRASKA

Offutt AFB	19 Units	3210	1894	87.3/unit	21.1

This project provides repairs to 19 quarters listed on the National Register of Historic Places. Units were constructed in the mid 1890's. Work includes repairing exterior brick, steps, doors, and rock walls, and window replacement.

SOUTH DAKOTA

Ellsworth AFB	1 Unit	2279	1962	62.0	0.0

This project provides complete renovation for three bathrooms including plumbing, flooring, lighting and fixtures.

OVERSEAS

JAPAN

Yokota AB	Quarters 691	2495	1975	47.0	0.0
	Quarters 692	4122	1975	50.0	0.0
	Quarters 693	2183	1975	47.0	1.9

Each of these projects provides a full renovation of sub-standard kitchen facilities including replacement plumbing, flooring, appliances and cabinets. Each project also replaces central air conditioning units. This renovation will cost $30K per unit. The remaining $15K per unit is routine annual maintenance.

GERMANY

Sembach AB	Quarters 20A	2100	1957	64.5	0.0

This project provides for renovation of kitchen, bathrooms, carpet and exterior siding.

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1991 BUDGET REQUEST

Reimbursement Authority

Program (In Thousands)
FY 1991 Program $9,500
FY 1990 Program $9,303

The FY 1991 program is based on FY 1989 experience and FY 1990 estimated execution considering inflationary/price escalation increases in the cost of rents, utility rates, services, and maintenance and repair work charged to family housing.

The following chart shows the source of receipts for the Family Housing account:

	FY 1989	FY 1990	FY 1991
Mobile Home Parks/Rent Proceeds, Other	$8,982	$8,993	$9,105
Receipts from Sales of Housing Assets	220	310	395
TOTAL	$9,202	$9,303	$9,500

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1991 BUDGET REQUEST

LEASING

Program (In Thousands)	
FY 1991 Program	$110,911
FY 1990 Program	$ 93,847

Purpose and Scope

This program provides for worldwide leasing of privately owned housing and payment of the operation and maintenance of those units. The FY 1991 Authorization request for family housing is summarized as follows:

(1) 9,201 foreign lease points,
(2) 5,800 Section 801 lease points,
(3) 3,333 domestic lease points and
(4) $110,911,000 for appropriation to fund leased units and related expenses as described in the following exhibits.

The requirements and adjustments are:	($ in Millions)
FY 1990 CURRENT ESTIMATE	$ 93.8
Price Growth	
-Inflation	+ 3.2
Program Increase	
-Units Supported increase	+22.3
Program Decrease	
-Foreign Currency Revaluation	- 8.4
FY 1991 BUDGET REQUEST	$110.9

Foreign Leasing

Leasing in foreign countries is controlled by Congress. First by the number of lease points authorized, then by the review and approval of contract proposals, and finally by the funds appropriated.

Foreign Build-Lease (B/L) projects for San Vito AB in Italy, Alconbury, Bentwaters, and Upper Heyford in the United Kingdom, and Spangdahlem and Zweibrucken ABs in Germany, have all been stymied by failure to receive local planning council approval for their respective projects when expected. Most problems for these projects are now resolved. After lengthy negotiations with the contractors the Alconbury build lease project for 300 units has been dropped from the program; notice to proceed on the San Vito build lease project for 150 units was issued 15 May 89 and date of full occupancy scheduled for 4th Quarter FY 90; Bentwaters build lease project for 300 units will turnover 235 units by 4th Quarter FY 91 with a scheduled date of full occupancy in the 1st Quarter FY 92; final inspection of the Spangdahlem build lease project was completed August 1989 and the Air Force has accepted all units. Construction has begun on the Zweibrucken build lease project for 200 units. 4 units were accepted 4th Quarter FY 89, a total of 52 units will be turned over to the Air Force by 4rd Quarter FY 90. Due to local zoning and planning issues the balance of the project (148 units) will be cancelled.

Domestic Leasing

In FY 1984, Congress authorized testing a new leasing program for US installations in P.L. 98-115, Section 801. Subsequently, four housing projects were completed and occupied: Eielson AFB, AK 300 units, Hanscom AFB, MA 163 units, Goodfellow AFB, TX 200 units and March AFB, CA 200 units. Four additional projects were awarded in FY 89: Ellsworth AFB, SD 200 and 828 units, Castle AFB, CA 200 units and Travis AFB, CA 300 units. In addition, the evaluation and selection process has been completed for 675 units at Whiteman AFB, MO. With the extension of the build-lease program thru FY 1991, additional projects are planned to satisfy existing deficits.

Congress also authorized leasing of already constructed domestic units (10 U.S.C. 2828) on a temporary basis to satisfy critical requirements until a permanent solution can be found. In FY 91, the Air Force has requested an extension of 125 domestic leases to satisfy urgent requirements at Onizuka AFB, CA.

Air Force Family Housing
FY 1991 Budget Estimate
Analysis of Leased Housing Units
(Other than Section 801)

LOCATION (OAC)	FY89 LEASED UNITS	FY89 COSTS ($000)	FY90 LEASED UNITS	1st Qt UNITS REQ	2nd Qt UNITS REQ	3nd Qt UNITS REQ	4nd Qt UNITS REQ	FY90 COSTS ($000)	FY91 LEASED UNITS	1st Qt UNITS REQ	2nd Qt UNITS REQ	3nd Qt UNITS REQ	4nd Qt UNITS REQ	FY91 COSTS ($000)
DOMESTIC LEASES														
Maui (83)	4	57.9	5	5	5	5	5	74.6	0	0	0	0	0	0.0
New Boston (83)	6	72.4	6	6	6	6	6	74.9	0	0	0	0	0	0.0
Onizuka (83)	125	1474.7	125	125	125	125	125	1526.3	125	125	125	125	125	1572.1
Unassigned	3198	0.0	3197	0	0	0	0	0.0	3208	0	0	0	0	0.0
TOTAL DOMESTIC	3333	1605	3333	136	136	136	136	1,675.8	3333	125	125	125	125	1572.1
FOREIGN LEASES														
Ascension(47)	1	16.0	1	1	1	1	1	16.0	1	1	1	1	1	16.5
Bangkok(53)	1	26.0	1	1	1	1	1	26.0	1	1	1	1	1	26.8
Buchschlag(65)	1	9.0	1	1	1	1	1	10.0	1	1	1	1	1	9.7
Dietzenbach(65)	108	818.0	108	108	108	108	108	1046.0	108	108	108	108	108	1012.8
Egelsbach(65)	52	425.0	52	52	52	52	52	511.0	52	52	52	52	52	494.8
Lajes(65)	332	12.0	332	2	2	2	2	12.0	332	2	52	77	102	363.5
Neider-Roden(65)	140	1120.0	140	140	140	140	140	1512.0	140	140	140	140	140	1464.1
Rhein-Main(65)	100	61.0	100	25	40	75	100	1002.0	300	125	150	175	200	2664.5
Osan(74)	411	1741.2	411	201	201	201	201	2500.0	411	201	201	201	201	2243.5
Albrook(78)	21	28.2	0	0	0	0	0	0.0	0	0	0	0	0	0.0
Alconbury(80)	550	2457.2	550	250	250	250	250	2808.7	550	250	250	250	250	2626.0
Ankara(80)	145	1497.3	145	145	145	145	145	1539.5	145	145	145	145	145	1585.7
Aviano(80	5	62.3	5	5	5	5	5	71.5	5	5	5	5	5	70.0
Bentwaters(80)	800	5172.4	800	500	500	500	500	5981.7	800	555	615	675	735	8418.0
Bonn(80)	2	36.8	2	2	2	2	2	41.5	2	2	2	2	2	40.7
Comiso(80)	460	7469.0	460	460	460	460	460	8452.0	460	460	460	460	460	9601.9
Decimamannu(80)	1	15.2	1	1	1	1	1	16.1	1	1	1	1	1	15.7
Geilenkirchen(80)	0	0.0	0	1	1	1	1	26.5	1	1	1	1	1	25.4
Geneva(80)	0	0.0	0	0	0	0	0	0.0	0	0	0	0	0	0.0
Hahn(80)	302	2273.6	302	302	302	302	302	2563.5	302	302	302	302	302	2458.3

DD Form 2458-1, JUN 86

Exhibit FH-4 (Page 1 of 2)

Air Force Family Housing
FY 1991 Budget Estimate
Analysis of Leased Housing Units
(Other than Section 801)

LOCATION (OAC)	FY89 LEASED UNITS	FY89 COSTS ($000)	FY 90 LEASED UNITS	1st Qt UNITS REQ	2nd Qt UNITS REQ	3nd Qt UNITS REQ	4nd Qt UNITS REQ	FY90 COSTS ($000)	FY91 LEASED UNITS	1st Qt UNITS REQ	2nd Qt UNITS REQ	3nd Qt UNITS REQ	4nd Qt UNITS REQ	FY91 COSTS ($000)
Hellenikon(80)	4	75.9	4	4	4	4	4	75.2	4	4	4	4	4	75.8
High Wycombe(80)	1	0.0	1	0	0	0	0	0.0	0	0	0	0	0	0.0
H. Oldendorf(80)	90	720.7	90	90	90	90	90	812.5	90	90	90	90	90	779.2
Izmir(80)	14	352.4	14	14	14	14	14	296.7	14	14	14	14	14	305.6
Lakenheath(80)	1083	7835.6	1083	1083	1083	1083	1083	9183.6	1083	1083	1083	1083	1083	9355.7
Monkton(80)	1	12.5	1	1	1	1	1	15.9	1	1	1	1	1	14.9
Mt Vergine(80)	20	179.0	20	20	20	20	20	191.0	20	20	20	20	20	180.4
Oslo(80)	2	99.0	2	2	2	2	2	118.9	2	2	2	2	2	116.0
Paris(80)	1	30.0	1	1	1	1	1	32.6	1	1	1	1	1	31.6
Ramstein(80)	727	5665.7	727	727	727	727	727	6702.8	727	727	727	727	727	6927.8
Rosenhearty(80)	4	44.8	4	4	4	4	4	56.2	4	4	4	4	4	52.6
San Vito(80)	150	0.0	150	24	72	120	150	2791.2	150	150	150	150	150	3302.1
Soesterberg(8)	190	1827.1	190	190	190	190	190	2101.0	190	190	190	190	190	2039.5
Spangdahlen(80)	500	4064.0	500	500	500	500	500	4946.3	500	500	500	500	500	4743.3
Torrejon(80)	858	10713.0	858	858	858	858	858	11987.4	858	858	858	858	858	12847.0
Upper Heyford(80)	350	1893.0	350	350	350	350	350	2024.0	350	350	350	350	350	1951.6
Weathersfield	50	245.9	50	50	48	48	48	289.2	48	48	48	48	48	270.4
Zweibrucken(80)	52	55.2	52	52	52	52	75	571.0	52	52	52	52	52	594.0
Copenhagen(83)	4	46.0	4	2	2	2	2	35.0	4	2	2	2	2	36.4
Seychelles(83)	1	11.0	1	1	1	1	1	10.0	1	1	1	1	1	10.4
Unassigned	1667		1688					7,975.1	1490					
TOTAL FOREIGN	9201	57111.0	9201	6170	6231	6314	6392	78351.6	9201	6449	6584	6694	6804	76772.2

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Exhibit FH-4 (Page 2 of 2)

FAMILY HOUSING, DEPARTMENT OF THE AIR FORCE
SECTION 801 FAMILY HOUSING SUMMARY
(Dollars In Thousands)
FY 1991

LOCATION (OAC)	NO. OF UNITS	FY OF INITIAL AUTH	DATE OF AWARD	DATE OF FULL OCCUP	FY90 UNITS	FY90 COSTS	FY91 UNITS	FY91 COSTS
Onizuka, Ca (83)	170	FY88			0	0.0	0	0.0
Eielson AFB, AK (71)	300	FY84	JAN 85	AUG 86	300	4430.5	300	4607.7
Hanscom AFB, MA (47)	163	FY84	SEP 85	OCT 87	163	2604.7	163	2708.9
March AFB, CA (67)	200	FY86	SEP 86	NOV 88	200	1850.1	200	1924.1
Goodfellow AFB, TX (64)	200	FY86	SEP 86	DEC 87	200	1663.2	200	1729.7
Whiteman AFB, MO (67)	675	FY88	FY90	FY92	0	0.0	425	3260.4
Travis AFB, CA (65)	300	FY88	SEP 89	FY92	100	300.0	300	3432.0
Ellsworth AFB (2), SD (67)	828	FY88	AUG 89	FY92	0	0.0	828	4657.2
Ellsworth AFB, SD (67)	200	FY88	JUN 89	FY90	200	2171.1	200	3010.6
Castle AFB, CA (67)	200	FY88	SEP 89	FY91	0	0.0	200	1923.2
Cannon AFB, NM (78)	700	FY88	FY90	FY92	0	0.0	200	2176.0
Mt. Home AFB Id (78)	470	FY90	FY91	FY93	0	0.0	0	0.0
Bolling AFB DC (43)	450	FY90	FY91	FY93	0	0.0	0	0.0
Andrews AFB MD (65)	450	FY90	FY91	FY93	0	0.0	0	0.0
Unassigned	357							0.0
Expired	137							
SIOH Estimate						800.0		3136.9
TOTAL	5800	N/A	N/A	N/A	1163	13819.6	3016	32566.7

Exhibit FH-5

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1991 BUDGET REQUEST

DEBT PAYMENT

Program (in Thousands)
FY 1991 Program $81
FY 1990 Program $90

Purpose and Scope

The Debt Payment program continues in FY 1991 in name only, as the last of the Capehart and Wherry mortgages were liquidated in FY 1989.

This program also includes payment of Servicemen's Mortgage Insurance Premiums to FHA for mortgages assumed by active military personnel prior to FY 1980. These payments are at lower levels in FY 1991.

Program Summary

Authorization is requested for the appropriation of $81,000 as follows:

($ In Thousands)	FY 1989 ACTUAL	FY 1990 ESTIMATE	FY 1991 ESTIMATE
Servicemen's Mortgage Insurance Premiums	100	90	81
TOTAL OBLIGATING AUTHORITY (TOA)	101	90	81
Principal Payment			
Capehart	56	0	0
Wherry	10	0	0
Subtotal	66	0	0
TOTAL REQUIREMENTS (BUDGET AUTHORITY PLUS APPROPRIATION):	167	90	81

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1991 BUDGET REQUEST

Servicemen's Mortgage Insurance Premiums

Servicemen's Mortgage Insurance Premiums, Section 124, Public Law 560, 83rd Congress, The Housing Act of 1954, aids in providing homes for members of the Armed Forces of the United States and their families through a system of FHA mortgage insurance especially designed to assist such members in financing the construction or purchase of homes.

This program was discontinued through Public Law 93-130 (Military Construction Appropriation Act, 1980) which allowed coverage only on existing mortgages covered prior to FY 1980. The amount needed to continue funding premiums on mortgages existing prior to FY 1980 continues to decrease. The program for FY 1989, FY 1990 and FY 1991 is as follows:

Fiscal Year	Number	Average Payment/YR	Amount($000)
1989	526	191	100
1990	460	195	90
1991	435	186	81

DEPARTMENT OF THE AIR FORCE
MILITARY FAMILY HOUSING
FY 1991 BUDGET REQUEST

RENTAL GUARANTEE HOUSING

PURPOSE AND SCOPE

This program provides for worldwide rental of privately owned housing with a guarantee from the Air Force to the owner to maintain 97% occupancy for those units.

DOMESTIC RENTAL GUARANTEE

In FY 1984, Congress authorized testing of rental guarantee programs for US installations in P.L. 98-115 Section 802. The Air Force selected two candidates for testing this program. A 300 unit project at Norton AFB, California was awarded but the contractor was unable to secure financing. The second 300 unit project was advertised at Goodfellow AFB, Texas but no proposals were received. Congress authorized an additional 600 units in FY 1986, and 1000 units in FY 1987. It has been determined that the fund stream (BAQ and VHA) available for financing new projects under this authority is inadequate in most areas and entrepreneurs are minimally interested. For FY 1989 the Air Force evaluated a Section 802 projects for new construction at Bolling AFB, DC (200, 3-story, garden apartment units), and revitalization projects for Nellis AFB, Nevada (200 units), McConnell AFB, Kansas (585 units), and Wurtsmith AFB, MI (100 units).

FY 1991 Budget Estimates
AIR NATIONAL GUARD

DEPARTMENTS OF THE ARMY AND THE AIR FORCE · NATIONAL GUARD BUREAU

FY 1991
MILITARY CONSTRUCTION PROGRAM

Justification Data Submitted to Congress
January 1990

DEPARTMENT OF THE AIR FORCE
AIR NATIONAL GUARD
JUSTIFICATION OF ESTIMATES FOR FISCAL YEAR 1991

TABLE OF CONTENTS

SUMMARY PROJECT LIST i - vi

MILITARY CONSTRUCTION AUDIT TRAIL I - VIII

NEW MISSION vs CURRENT MISSION IX - XI

SECTION I BUDGET APPENDIX EXTRACT

- Language a-i
- Program and Financing Schedule a-ii
- Object Classification Schedule FY 1991 a-iii
- Special Program Considerations a-iv

SECTION II INSTALLATION AND PROJECT JUSTIFICATION DATA

- DD FORM 1390s and 1391s b-1 - b-126

AMENDED BUDGET SUBMISSION (ABS)
SUMMARY PROJECT LIST
AIR NATIONAL GUARD
MILITARY CONSTRUCTION PROGRAM - FY 1991

STATE/ COUNTRY	INSTALLATION AND PROJECT	AUTH/APPROP AMOUNT	DD FORM 1391 PAGE NO.
Alabama	Birmingham MPT Air National Guard		
	Upgrade Taxiway	520	b - 3
	Sub-total Alabama	520	
Alaska	Kulis ANG Base		
	Fire Suppression System	4,000	b - 7
	Sub-total Alaska	4,000	
Arizona	Tucson International Airport		
	Add to Aircraft Parking Apron	2,300	b - 11
	Fire Station	1,200	b - 13
	Sub-total Arizona	3,500	
Arkansas	Fort Smith Municipal Airport ANG		
	Add to and Alter Fire Station	530	b - 17
	Taxiway	400	b - 120
	Little Rock Air Force Base		
	Composite Training Facility	950	b - 21
	Sub-total Arkansas	1,880	
California	Fresno ANG Base		
	Fire Station	1,300	b - 25
	Munitions Igloos	2,600	b - 27
	Sub-total California	3,900	
Florida	Camp Blanding Military Reservation		
	Base Supply and Equipment Warehouse	1,100	b - 31
	Composite General Support and Training Facility	1,800	b - 33
	Sub-total Florida	2,900	

STATE/ COUNTRY	INSTALLATION AND PROJECT	AUTH/APPROP AMOUNT	DD FORM 1391 PAGE NO.
Georgia	Hunter ANG Station No. 2		
	Mobility Storage Warehouse	325	b - 120
	Sub-total Georgia	325	
Illinois	Capital Municipal Aiport ANG		
	Special Fuels Facility	300	b - 120
	Greater Peoria Airport ANG		
	Fire Station	1,100	b - 37
	Fuel Systems Maintenance and Corrosion Control Facility	2,000	b - 39
	Sub-total Illinois	3,400	
Indiana	Fort Wayne Municipal Airport		
	Small Arms Range	400	b - 120
	Hulman Regional Airport		
	Petroleum Operations and Laboratory	350	b - 120
	Sub-total Indiana	750	
Maine	Bangor Air National Guard Base		
	Fire Suppression System	1,350	b - 43
	Sub-total Maine	1,350	
Maryland	Andrews Air Force Base		
	Special Fuels Facility	300	b - 121
	Martin State Airport ANG		
	Alter Composite Support Facility	600	b - 47
	Sub-total Maryland	900	
Michigan	Selfridge ANG Base		
	Add to and Alter Avionics Shop	650	b - 51
	Add to And Alter Precision Measuring Equipment Laboratory	600	b - 53
	Add to Munitions Maintenance and Storage	640	b - 55
	Sub-total Michigan	1,890	

STATE/ COUNTRY	INSTALLATION AND PROJECT	AUTH/APPROP AMOUNT	DD FORM 1391 PAGE NO.
Mississippi			
	Gulfport Mpt Permanent Training Base		
	Add to and Alter AGE/Vehicle Maintenance Facility	1,150	b - 59
	Alter Base Supply Warehouse	250	b - 121
	Sub-total Mississippi	1,400	
Missouri	Lambert-St Louis IAP ANG		
	Alter Engine Shop	400	b - 121
	Rosecrans Memorial Airport		
	Add to Aircraft Welding Shop	250	b - 121
	Sub-total Missouri	650	
New Jersey	Atlantic City		
	Base Entry Complex	400	b - 121
	McGuire Air Force Base		
	Alter Aircraft Maintenance Shop	520	b - 63
	Sub-total New Jersey	920	
New York	Niagara Falls International Airport		
	Munitions Maintenance and Storage Complex (Joint ANG/AFRES Project)	4,300 (1)	b - 67
	Suffolk County Airport ANG		
	Fire Detection/Suppression System	1,450	b - 71
	Sub-total New York	5,750	
North Carolina	Charlotte		
	ADAL Squad OPS	400	b - 122
	Sub-total North Carolina	400	
North Dakota	Hector Field Air National Guard		
	Alter Maintenance Hangar	1,400	b - 75
	Munitions Maintenance and Storage Complex	2,600	b - 77
	Sub-total North Dakota	4,000	

STATE/ COUNTRY	INSTALLATION AND PROJECT	AUTH/APPROP AMOUNT	DD FORM 1391 PAGE NO.
Ohio	Rickenbacker Air National Guard Base		
	Alter Fuel Systems Maintenance Dock (Joint ANG/AFRES Project)	400 (2)	b - 81
	Power Check Pad w/Sound Suppressor	700	b - 83
	Sub-total Ohio	1,100	
Oklahoma	Will Rogers World Airport		
	BCE/Mobility Storage Warehouse	400	b - 122
	Sub-total Oklahoma	400	
Pennsylvania	Greater Pittsburgh ANG Base		
	Vehicle Storage Facility	300	b - 122
	Willow Grove Air Reserve Facility		
	Medical Training Facility (Joint ANG/AFRES Project)	1,250 (3)	b - 87
	Sub-total Pennsylvania	1,550	
South Carolina	McEntire Air National Guard Base		
	ECM Maintenance and Storage Facility	550	b - 91
	Sub-total South Carolina	550	
Texas	Ellington Air National Guard Base		
	Alert Facilities	2,200	b - 95
	Dallas NAS		
	Add to and Alter Aerial Port Training Facility	325	b - 122
	Sub-total Texas	2,525	
Vermont	Burlington International Airport		
	Add to and Alter Maintenance Hangar	500	b - 99
	Avionics Shop	1,700	b - 102
	Sub-total Vermont	2,200	

STATE/ COUNTRY	INSTALLATION AND PROJECT	AUTH/APPROP AMOUNT	DD FORM 1391 PAGE NO.
Virginia	Camp Pendleton		
	Base Supply and Equipment Warehouse	1,100	b - 106
	Composite Operations and Training Facility	2,650	b - 108
	Richmond IAP (Byrd Field)		
	Add to and Alter Avionics and ECM Shop	1,200	b - 112
	Power Check Pad w/Sound Suppressor	700	b - 114
	Sub-total Virginia	5,650	
West Virginia	EWVRA Shepherd Field ANG		
	ADAL Avionics Shop	400	b - 122
	Sub-total West Virginia	400	
	SUB-TOTAL INSIDE THE UNITED STATES	52,810	

STATE/ COUNTRY	INSTALLATION AND PROJECT	AUTH/APPROP AMOUNT	DD FORM 1391 PAGE NO.
	OUTSIDE THE UNITED STATES		
Puerto Rico	Puerto Rico IAP Fire Suppression System	1,097	b - 118
	Sub-total Puerto Rico	1,097	
	SUB-TOTAL - ALL BASES	53,907	
	UNSPECIFIED MINOR CONSTRUCTION	3,793	b - 123
	PLANNING AND DESIGN	8,800	b - 126
	SUB-TOTAL - SUPPORT COSTS	12,590	
	GRAND TOTAL	66,500	

(1) Joint Air National Guard and Air Force Reserve Construction Project for a Total Requested Authorization of $ 4,500,000 divided between both users based on expected utilization of this facility.

(2) Joint Air National Guard and Air Force Reserve Construction Project for a Total Requested Authorization of $ 900,000 divided between both users based on expected utilization of this facility.

(3) Joint Air National Guard and Air Force Reserve Construction Project for a Total Requested Authorization of $ 2,500,000 divided between both users based on expected utilization of this facility.

FY 1991 MILITARY CONSTRUCTION AUDIT TRAIL
AIR NATIONAL GUARD

STATE/ INSTALLATION/ PROJECT NAME	FY 1990/1991 BIENNIAL BUDGET ($000)	CHANGE ($000)	AMENDED FY 1990/ 1991 BIENNIAL BUDGET ($000)
Alabama			
Dannelly FLD ANG			
Add to NDI and Welding Shop	350	- 350	-0-
Birmingham MPT Air National Guard			
Upgrade Taxiway	-0-	+ 520	520
Sub-total Alabama	350	+ 170	520
Alaska			
Eielson Air Force Base			
Vehicle Maintenance Shop	1,200	-1,200	-0-
Kulis ANG Base			
Fire Suppression System	3,950	+ 50	4,000
Sub-total Alaska	5,150	-1,150	4,000
Arizona			
Fort Huachuca ANG Station			
Composite Deployment Support Facilities	2,350	-2,350	-0-
Sky Harbor International Airport			
Composite Support Facility	1,800	-1,800	-0-
Tucson International Airport			
Add to Aircraft Parking Apron	4,250	-1,950	2,300
Fire Station	1,400	- 200	1,200
Sub-total Arizona	9,800	-6,300	3,500
Arkansas			
Fort Smith Municipal Airport ANG			
Add to and Alter Fire Station	640	- 110	530
Taxiway	380	+ 20	400
Little Rock Air Force Base			
Composite Training Facility	950	-0-	950
Sub-total Arkansas	1,970	- 90	1,880

STATE/ INSTALLATION/ PROJECT NAME	FY 1990/1991 BIENNIAL BUDGET ($000)	CHANGE ($000)	AMENDED FY 1990/ 1991 BIENNIAL BUDGET ($000)
California			
Fresno ANG Base			
Fire Station	1,750	- 450	1,300
Munitions Igloos	2,900	- 300	2,600
March Air Force Base			
Composite Engine and Maintenance Facility	2,350	-2,350	-0-
Sub-total California	7,000	-3,100	3,900
Florida			
Camp Blanding Military Reservation			
Base Supply and Equipment Warehouse	1,100	-0-	1,100
Composite General Support and Training Facility	2,250	- 450	1,800
Sub-total Florida	3,350	- 450	2,900
Georgia			
Dobbins Air Force Base			
Petroleum Operations Complex	340	- 340	-0-
Hunter ANG Station No. 2			
Mobility Storage Warehouse	300	+ 25	325
Sub-total Georgia	640	- 315	325
Illinois			
Capital Muncipal Airport ANG			
Munitions Maintenance and Storage Complex	1,800	-1,800	-0-
Special Fuels Facility	-0-	+ 300	300
Greater Peoria Airport ANG			
Fire Station	900	+ 200	1,100
Fuel Systems Maintenance and Corrosion Control Facility	2,000	-0-	2,000
Sub-total Illinois	4,700	-1,300	3,400

STATE/ INSTALLATION/ PROJECT NAME	FY 1990/1991 BIENNIAL BUDGET ($000)	CHANGE ($000)	AMENDED FY 1990/ 1991 BIENNIAL BUDGET ($000)
Indiana			
Fort Wayne Muncipal Airport			
Relocate Aircraft Arresting System	390	- 390	-0-
Small Arms Range	350	+ 50	400
Hulman Regional Airport			
Munitions Maintenance and Storage Complex	2,100	-2,100	-0-
Petroleum Operations and Laboratory	275	+ 75	350
Sub-total Indiana	3,115	-2,365	750
Kentucky			
Standiford Field ANG			
Add to Aircraft Parking Apron	870	- 870	-0-
Add to and Alter Aerial Port Training Facility	700	- 700	-0-
Alter Squadron Operations	790	- 790	-0-
Fire Station	1,000	-1,000	-0-
Fuel Systems Maintenance and Corrosion Control Dock	3,150	-3,150	-0-
Sub-total Kentucky	6,510	-6,510	-0-
Maine			
Bangor Air National Guard Base			
Fire Suppression System	850	+ 500	1,350
Sub-total Maine	850	+ 500	1,350
Maryland			
Andrews Air Force Base			
Composite Maintenance Facility	2,150	-2,150	-0-
Special Fuels Facility	-0-	+ 300	300
Martin State Airport ANG			
Alter Composite Support Facility	345	+ 255	600
Relocate Utility Lines	1,000	-1,000	-0-
Sub-total Maryland	3,495	-2,595	900

STATE/ INSTALLATION/ PROJECT NAME	FY 1990/1991 BIENNIAL BUDGET ($000)	CHANGE ($000)	AMENDED FY 1990/ 1991 BIENNIAL BUDGET ($000)
Massachusetts			
Barnes Municipal Airport ANG			
Petroleum Operations Facility	280	- 280	-0-
Sub-total Massachusetts	280	- 280	-0-
Michigan			
Selfridge ANG Base			
Add to and Alter Avionics Shop	700	- 50	650
Add to and Alter Precision Measuring Equipment Laboratory	-0-	+ 600	600
Add to Munitions Maintenance and Storage	600	+ 40	640
Sub-total Michigan	1,300	+ 590	1,890
Minnesota			
Duluth AGB			
Munitions Haul Road	670	- 670	-0-
Sub-total Minnesota	670	- 670	-0-
Mississippi			
Allen C. Thompson Field			
Base Civil Engineering Facility	1,600	-1,600	-0-
Composite Medical Training and Security Police Facility	1,500	-1,500	-0-
Gulfport Mpt Permanent Training Base			
Add to and Alter AGE/Vehicle Maintenance Facility	1,150	-0-	1,150
Add to and Alter Base Engineer Maintenance Facility	520	- 520	-0-
Alter Base Supply Warehouse	230	+ 20	250
Comm Electronics Training Facility	2,300	-2,300	-0-
Key FLD			
Aircraft Maintenance Dock	6,000	-6,000	-0-
Sub-total Mississippi	13,300	-11,900	1,400
Missouri			
Lambert-St. Louis IAP ANG			
Alter Engine Shop	-0-	+ 400	400
Rosecrans Memorial Airport			
Add to Aircraft Welding Shop	300	- 50	250
Alter Ops and Training Facility	1,200	-1,200	-0-
Sub-total Missouri	1,500	- 850	650

STATE/ INSTALLATION/ PROJECT NAME	FY 1990/1991 BIENNIAL BUDGET ($000)	CHANGE ($000)	AMENDED FY 1990/ 1991 BIENNIAL BUDGET ($000)
Nevada			
Reno-Cannon International Airport			
Composite Dining and Medical Training Facility	2,400	-2,400	-0-
Sub-total Nevada	2,400	-2,400	-0-
New Jersey			
Atlantic City			
Base Entry Complex	-0-	+ 400	400
McGuire Air Force Base			
Alter Aircraft Maintenance Shop	-0-	+ 520	520
Sub-total New Jersey	-0-	+ 920	920
New York			
Niagara Falls International Airport			
Munitions Maintenance and Storage Complex (Joint ANG/AFRES Project)	4,100	+ 200	4,300
Schenectady Airport ANG			
Aeromedical Evacuation Training Facility	1,600	-1,600	-0-
Suffolk County Airport ANG			
Fire Detection/Suppression System	1,400	+ 50	1,450
Sub-total New York	7,100	-1,350	5,750
North Carolina			
Charlotte			
ADAL Squad Ops	-0-	+ 400	400
Sub-total North Carolina	-0-	+ 400	400
North Dakota			
Hector Field Air National Guard			
Alter Maintenance Hangar	900	+ 500	1,400
Munitions Maintenance and Storage Complex	2,100	+ 500	2,600
Sub-total North Dakota	3,000	+1,000	4,000

STATE/ INSTALLATION/ PROJECT NAME	FY 1990/1991 BIENNIAL BUDGET ($000)	CHANGE ($000)	AMENDED FY 1990/ 1991 BIENNIAL BUDGET ($000)
Ohio			
Rickenbacker Air National Guard Base			
Alter Fuel Systems Maintenance Dock (Joint ANG/AFRES Project)	360	+ 40	400
Power Check Pad w/Sound Suppressor	-0-	+ 700	700
Springfield Beckley MAP			
Add to Fuel Systems Maintenance/ Corrosion Control Facility	1,000	-1,000	-0-
Add to Munitions Maintenance Shop and Storage Facility	560	- 560	-0-
Aircraft Engine Shop	1,400	-1,400	-0-
ECM Pod Shop Maintenance and Storage	500	- 500	-0-
Sub-total Ohio	3,820	-2,720	1,100
Oklahoma			
Will Rogers World Airport			
BCE/Mobility Storage Whse	-0-	+ 400	400
Sub-total Oklahoma	-0-	+ 400	400
Pennsylvania			
Greater Pittsburgh ANG Base			
Access Road	5,000	-5,000	-0-
Vehicle Storage Facility	-0-	+ 300	300
Willow Grove Air Reserve Facility			
Medical Training Facility (Joint ANG/AFRES Project)	1,250	-0-	1,250
Sub-total Pennsylvania	6,250	-4,700	1,550
South Carolina			
McEntire Air National Guard Base			
Add to and Alter Communications Facility	550	- 550	-0-
ECM Maintenance and Storage Facility	-0-	+ 550	550
Sub-total South Carolina	550	-0-	550

STATE/ INSTALLATION/ PROJECT NAME	FY 1990/1991 BIENNIAL BUDGET ($000)	CHANGE ($000)	AMENDED FY 1990/ 1991 BIENNIAL BUDGET ($000)
Tennessee			
McGhee-Tyson Airport			
PMEC Administrative Support Facility	2,400	-2,400	-0-
Sub-total Tennessee	2,400	-2,400	-0-
Texas			
Ellington Air National Guard Base			
Alert Facilities	2,400	- 200	2,200
Dallas NAS			
Add to and Alter Aerial Port Training Facility	-0-	+ 325	325
Sub-total Texas	2,400	+ 125	2,525
Vermont			
Burlington International Airport			
Add to and Alter Maintenance Hangar	-0-	+ 500	500
Avionics Shop	1,700	-0-	1,700
Sub-total Vermont	1,700	+ 500	2,200
Virginia			
Camp Pendleton			
Base Supply and Equipment Warehouse	1,100	-0-	1,100
Composite Operations and Training Facility	2,800	- 150	2,650
Richmond IAP (Byrd Field)			
Add to and Alter Avionics and ECM Shop	-0-	+1,200	1,200
Power Check Pad w/Sound Suppressor	-0-	+ 700	700
Sub-total Virginia	3,900	+1,750	5,650
West Virginia			
EWVRA Shepherd Field ANG			
ADAL Avionics Shop	-0-	+ 400	400
Sub-total West Virginia	-0-	+ 400	400
SUB-TOTAL INSIDE THE UNITED STATES	97,500	-44,690	52,810

STATE/ INSTALLATION/ PROJECT NAME	FY 1990/1991 BIENNIAL BUDGET ($000)	CHANGE ($000)	AMENDED FY 1990/ 1991 BIENNIAL BUDGET ($000)
OUTSIDE THE UNITED STATES			
Puerto Rico			
Puerto Rico IAP			
Fire Suppression System	-0-	+1,097	1,097
Sub-total Puerto Rico	-0-	+1,097	1,097
GRAND TOTAL MAJOR CONSTRUCTION	97,500	-43,593	53,907
PLANNING AND DESIGN	7,200	+1,600	8,800
UNSPECIFIED MINOR CONSTRUCTION	2,500	+1,293	3,793
GRAND TOTAL	107,200	-40,700	66,500

AMENDED BUDGET SUBMISSION (ABS)
AIR NATIONAL GUARD
NEW MISSION VERSUS CURRENT MISSION - FY 1991

LOCATION	PROJECT	COST ($000)	NEW/ CURRENT
Birmingham MPT AL	Upgrade Taxiway	520	C
Kulis AGB AK	Fire Suppression System	4,000	C
Tucson IAP AZ	Add to Aircraft Parking Apron	2,300	N
	Fire Station	1,200	N
Fort Smith MAP AR	Add to and Alter Fire Station	530	N
	Taxiway	400	C
Little Rock AFB AR	Composite Training Facility	950	N
Fresno AGB CA	Fire Station	1,300	C
	Munitions Igloos	2,600	N
Camp Blanding Military Reservation FL	Base Supply and Equipment Warehouse	1,100	N
	Composite General Support and Training Facility	1,800	N
Hunter ANG Station No. 2 GA	Mobility Storage Warehouse	325	N
Capital MAP IL	Special Fuels Facility	300	N
Greater Peoria APT IL	Fire Station	1,100	N
	Fuel Systems Maintenance and Corrosion Control Facility	2,000	N
Fort Wayne MAP IN	Small Arms Range	400	C
Hulman Regional APT IN	Petroleum Operations and Laboratory	350	C
Bangor AGB ME	Fire Suppression System	1,350	C
Andrews AFB MD	Special Fuels Facility	300	N
Martin State APT MD	Alter Composite Support Facility	600	C
Selfridge AGB MI	Add to and Alter Avionics Shop	650	N
	Add to and Alter PMEL	600	N
	Add to Munitions Maintenance and Storage	640	N

LOCATION	PROJECT	COST ($000)	NEW/ CURRENT
Gulfport Mpt Permanent Training Base MS	Add to and Alter AGE/Vehicle Maintenance Facility	1,150	N
	Alter Base Supply Warehouse	250	N
Lambert-St. Louis MO	Alter Engine Shop	400	N
Rosecrans MAP MO	Add to Aircraft Welding Shop	250	N
Atlantic City NJ	Base Entry Complex	400	C
McGuire AFB NJ	Alter Aircraft Maintenance Shop	520	N
Niagara Falls IAP NY	Munitions Maintenance and Storage Complex (Joint ANG/AFRES Project)	4,300	N
Suffolk County APT NY	Fire Detection/Suppression System	1,450	C
Charlotte NC	ADAL Squad Ops	400	N
Hector FLD ND	Alter Maintenance Hangar	1,400	N
	Munitions Maintenance and Storage Complex	2,600	N
Rickenbacker AGB OH	Alter Fuel Systems Maintenance Dock (Joint ANG/AFRES Project)	400	N
	Power Check Pad w/Sound Suppressor	700	N
Will Rogers World Airport OK	BCE/Mobility Storage Whse	400	C
Greater Pittsburgh AGB PA	Vehicle Storage Facility	300	C
Willow Grove Air Reserve Facility PA	Medical Training Facility (Joint ANG/AFRES Project)	1,250	C
McEntire AGB SC	ECM Maintenance and Storage Facility	550	N
Ellington AGB TX	Alert Facilities	2,200	N
Dallas NAS TX	Add to and Alter Aerial Port Training Facility	325	C
Burlington IAP VT	Add to and Alter Maintenance Hangar	500	C
	Avionics Shop	1,700	N

LOCATION	PROJECT	COST ($000)	NEW/ CURRENT
Camp Pendleton VA	Base Supply and Equipment Warehouse	1,100	N
	Composite Operations and Training Facility	2,650	N
Richmond IAP VA	Add to and Alter Avionics and ECM Shop	1,200	N
	Power Check Pad w/Sound Suppressor	700	N
EWVRA Shepherd FLD WV	ADAL Avionics Shop	400	N
Puerto Rico IAP PR	Fire Suppression System	1,097	C
	PLANNING AND DESIGN	8,800	N
	UNSPECIFIED MINOR CONSTRUCTION	3,793	N
	TOTAL NEW MISSION	51,858	
	TOTAL CURRENT MISSION	14,642	
	GRAND TOTAL - FY 1991 REQUEST	66,500	

DEPARTMENT OF THE AIR FORCE
JUSTIFICATION OF ESTIMATES FOR FISCAL YEAR 1991

APPROPRIATION

MILITARY CONSTRUCTION, AIR NATIONAL GUARD

SECTION 1

For construction, acquisition, expansion, rehabilitation, and conversion of facilities for the training and administration of the Air National Guard, and contribution therefore, as authorized by Chapter 133 of Title 10, United States Code, and Military Construction Authorization Acts, $66,500,000 ($198,628,000) to remain available until September 30, 1995.

SECTION 2 - EXPLANATION OF LANGUAGE CHANGES

( ) indicates FY 90 appropriation language.

Mil. Con., Air National Guard
Program and Financing (in Thousands of dollars) SUMMARY

Identification code 57-3830-0-1-051	Budget Plan (amounts for MILITARY CONSTRUCTION actions programed) 1989 actual	1990 est.	1991 est.	Obligations 1989 actual	1990 est.	1991 est.
Program by activities:						
Direct program:						
00.0101 Major construction	141,049	183,626	53,907	124,859	184,797	75,036
00.0201 Minor construction	3,000	3,000	3,793	3,482	3,606	4,374
00.0301 Planning	14,000	12,400	8,800	9,242	17,764	13,439
10.0001 Total	158,049	199,026	66,500	137,583	206,167	92,849
Financing:						
17.0001 Recovery of prior year obligations				-16		
Unobligated balance available, start of year:						
21.4002 For completion of prior year budget plans				-54,371	-74,479	-67,338
21.4003 Available to finance new budget plans		-800	-36,841		-800	-36,841
21.4009 Reprograming from/to prior year budget pla	-374					
23.4090 Reduction pursuant to P.L. 99-177 in unob ba		800			800	
Unobligated balance available, end of year:						
24.4002 For completion of prior year budget plans				74,479	67,338	40,969
24.4003 Available to finance subsequent year budge	800	36,841		800	36,841	
25.0001 Unobligated balance lapsing	33			33		
39.0001 Budget authority	158,508	235,867	29,659	158,508	235,867	29,659
Budget authority:						
40.0001 Appropriation	158,508	238,330	66,500	158,508	238,330	66,500
40.0090 Reduction pursuant to P.L. 99-177		-2,463			-2,463	
41.2201 Transferred to other accounts (unob bals)			-36,841			-36,841
43.0001 Appropriation (adjusted)	158,508	235,867	29,659	158,508	235,867	29,659
Relation of obligations to outlays:						
71.0001 Obligations incurred, net				137,583	206,167	92,849
72.4001 Obligated balance, start of year				142,445	147,151	186,618
74.4001 Obligated balance, end of year				-147,151	-186,618	-91,567
77.0001 Adjustments in expired accounts (net)				-36		
78.0001 Adjustments in unexpired accounts				-16		
90.0001 Outlays				132,824	166,700	187,900

Mil. Con., Air National Guard
Object Classification (in Thousands of dollars) SUMMARY

Identification code 57-3830-0-1-051	1989 actual	1990 est.	1991 est.
Direct obligations:			
Other services:			
125.003 Contracts	8,426	15,698	11,775
132.001 Land and structures	101,101	180,869	78,174
199.001 Total Direct obligations	109,527	196,567	89,949
Allocation Accounts			
Other services:			
325.003 Contracts	811	700	500
332.001 Land and structures	27,245	8,900	2,400
399.001 Total Allocation Accounts	28,056	9,600	2,900
999.901 Total obligations	137,583	206,167	92,849
Obligations are distributed as follows:			
Defense-Military:Army	1,846	1,100	200
Defense-Military:Navy	26,210	8,500	2,700
Defense-Military:Air Force	109,527	196,567	89,949
Total Obligations	137,583	206,167	92,849

SPECIAL PROGRAM CONSIDERATIONS

Pollution Abatement

The military construction projects proposed in this program will be designed to meet environmental standards. Military construction projects proposed primarily for abatement of existing pollution problems at installations have been reviewed to ensure that corrective design is accomplished in accordance with specific standards and criteria.

Energy Conservation

Military construction projects specifically for energy conservation at installations have been developed, reviewed, and selected with prioritization by energy savings per investment cost. Projects include improvements to existing facilities and utility systems to upgrade design, eliminate waste, and install energy saving devices. Projects are designed for minimum energy consumption.

Floodplain Management and Wetland Protection

Proposed land acquisitions, disposals, and installation construction projects have been planned to allow the proposed management of floodplains and the protection of wetlands by avoiding long and short-term adverse impacts, reducing the risk of flood losses, and minimizing the loss of degradation of wetlands. Project planning is in accordance with the requirements of Executive Order Nos. 11988 and 11900.

Design for Accessibility of Physically Handicapped Personnel

In accordance with Public Law 90-400, provisions for physically handicapped personnel will be provided for, where appropriate, the design of facilities included in this program.

Preservation of Historical Sites and Structures

Facilities included in this program do not directly or indirectly affect a district, site, building, structure, object or setting listed in the National Register of Historic Places, except as noted on DD Form 1391.

Environmental Protection

In accordance with Section 102(2) (c) of the Environmental Policy Act of 1969 (PL 91-190), the environmental impact analysis process has been completed or is actively underway for all projects in the Military Construction Program.

Economic Analysis

Economics are an inherent aspect of project development and design of military construction projects. Therefore, all projects included in this program represent the most economical use of resources.

SPECIAL PROGRAM CONSIDERATIONS

(continued)

Reserve Manpower Potential

The reserve manpower potential to meet and maintain authorized strengths of all reserve flying/non-flying units in those areas in which these facilities are to be located has been reviewed. It has been determined, in coordination with all other Services having reserve flying/non-flying units in these areas, that the number of units of the reserve components of the Armed Forces presently located in those areas, and those which have been allocated to the areas for future activation, is not and will not be larger than the number that reasonably can be expected to be maintained at authorized strength considering the number of persons living in the areas who are qualified for membership in those reserve units.

Potential Use of Vacant Schools and Other State and Local Facilities

The potential use of vacant schools and other state and local owned facilities has been reviewed and analyzed for each facility to be constructed under this program.

Construction Criteria Manual

Unless otherwise noted, the projects comply with the scope and design criteria prescribed in Part II of Military Handbook 1190, "Facility Planning and Design Guide".

1. COMPONENT ANG	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE JAN 90
3. INSTALLATION AND LOCATION BIRMINGHAM MPT AIR NATIONAL GUARD, ALABAMA		4. AREA CONSTR COST INDEX 0.90

5. FREQUENCY AND TYPE OF UTILIZATION
Four unit training assemblies per month, 15 days annual field training per year, daily use by technician/AGR force for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
9 Army National Guard Armories, 3 Army Reserve, 1 Marine and Naval Reserve Center

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS	
				START	CMPL
112-211	UPGRADE TAXIWAY	LS	520	JAN 85	JUN 86

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved
2 DEC 88
(Date)

9. LAND ACQUISITION REQUIRED None
(Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)
211-157	ACFT ENGINE INSP & REPAIR SHOP	12,000 SF	1,520
730-142	FIRE STATION	12,600 SF	1,950
880-232	FOAM FIRE SYSTEM	LS	1,450
124-135	REPLACE UNDERGROUND FUEL STORAGE TANKS	30 EA	1,750
171-443	RESERVE FORCES GEN TNG SPRT	5,100 SF	950
216-642	SEGREGATED MAGAZINE STORAGE	2,000 SF	290
214-425	VEHICLE MAINTENANCE FACILITY	15,000 SF	1,600

1. COMPONENT ANG	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE JAN 90

3. INSTALLATION AND LOCATION
BIRMINGHAM MPT AIR NATIONAL GUARD, ALABAMA

11. PERSONNEL STRENGTH AS OF 31 MAY 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZED	339	6	44	289	1,227	148	1,079
ACTUAL	302	6	44	252	1,216	148	1,068

12. RESERVE UNIT DATA

	STRENGTH	
UNIT DESIGNATION	AUTHORIZED	ACTUAL
106 TRN SQ	163	159
117 TRN WG	66	64
117 CEG SQ	127	118
117 CLM SQ	413	390
117 CMN FT	21	21
117 MSQ FT	37	34
117 MSQ SQ	51	48
117 RMS SQ	122	118
117 SVS FT	34	37
117 RTC SQ	80	74
117 THP HP	56	48
117 SEP FT	57	55
117 STU FT	0	50
TOTALS	1,227	1,216

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ASSIGNED
RF 4C Aircraft	18	24
C-131 Aircraft	1	1
Support Equipment	223	220
Vehicle Equivalents	224	224

1. COMPONENT ANG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE JAN 1990

3. INSTALLATION AND LOCATION BIRMINGHAM MPT AIR NATIONAL GUARD ALABAMA	4. PROJECT TITLE UPGRADE TAXIWAY

5. PROGRAM ELEMENT 55294F	6. CATEGORY CODE 112-211	7. PROJECT NUMBER BRKR001149	8. PROJECT COST($000) $520

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
UPGRADE TAXIWAY	LS			418
TAXIWAY REPAIR	SY	7,400	37	(274)
TAXIWAY ADDITION	SY	1,800	80	(144)
SUPPORTING FACILITIES				50
TAXIWAY LIGHTS	LS			(50)
SUBTOTAL				468
CONTINGENCY (5%)				23
TOTAL CONTRACT COST				491
SUPERVISION, INSPECTION AND OVERHEAD (5%)				25
TOTAL REQUEST				516
TOTAL REQUEST (ROUNDED)				520

10. Description of Proposed Construction: New asphalt taxiway and asphalt overlay on existing taxiway. Relocate lights. Improve drainage. site work as required.

11. REQUIREMENT: 9,200 SY ADEQUATE: 0 SUBSTANDARD: 7,400 SY

PROJECT: Provides a 75 feet wide taxiway from main runway to Air National Guard Apron (Current Mission).

REQUIREMENT: The Air National Guard requires 75 foot wide taxiway to support wide bodied cargo and and passenger aircraft used to move Air and Army National Guard forces during both peacetime exercise and wartime. Birmingham Municipal Airport is also the port of embarcation for the Army Forces at Fort McClellan.

CURRENT SITUATION: C-5 aircraft are currently being parked on the Municipal airport side of the runway. This presents a severe congestion and safety hazard. Other aircraft such as C-141's can use the 50 foot wide taxiway; however, they risk FOD damage to jet engines. This base supports over 300 flights of medium load aircraft each year.

IMPACT IF NOT PROVIDED: Continued operation under unsafe conditions due to lack of adequate taxiway width. City may not allow C-5 type aircraft to operate on city terminal side of runway due to congestion and heavy crossing of active runway by military vehicles.

1. COMPONENT ANG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE JAN 1990

3. INSTALLATION AND LOCATION

BIRMINGHAM MPT AIR NATIONAL GUARD ALABAMA

4. PROJECT TITLE UPGRADE TAXIWAY	5. PROJECT NUMBER BRKR001149

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	85 JAN 01
(b) Percent Complete as of Jan 90	100%
(c) Date 35% Designed	85 DEC 01
(d) Date Design Complete	86 JUN 01
(2) Basis:	
(a) Standard or Definitive Design -	
(b) Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	20
(b) All Other Design Costs	10
(c) Total	30
(d) Contract	30
(e) In-house	
(4) Construction Start	91 MAR

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT ANG	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE JAN 90
3. INSTALLATION AND LOCATION KULIS ANG BASE, ALASKA		4. AREA CONSTR COST INDEX 1.79

5. FREQUENCY AND TYPE OF UTILIZATION
Four unit training assemblies per month, 15 days annual field training per year, daily use by technician/AGR force and for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
3 Army National Guard, 1 Army Post, 1 Air Force Base

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
880-232	FIRE SUPPRESSION SYSTEM	LS	4,000	MAY 88	SEP 90

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved
7 MAY 88
(Date)

9. LAND ACQUISITION REQUIRED None
(Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)
217-712	ADD TO AND ALTER AVIONICS/ECM SHOP	8,400 SF	750
722-351	ADD TO AND ALTER BLDG 22 FOR DINING HALL/MED TRNG & ADMIN	LS	1,750
124-135	ADD TO AND ALTER JET FUEL STORAGE COMPLEX	5,000 BL	1,800
141-753	ADD TO AND ALTER SQUADRON OPERATIONS FACILITY	9,700 SF	2,500
211-177	ALTER HELICOPTER MAINTENANCE FACILITY	13,000 SF	1,050
442-758	BASE SUPPLY AND EQUIPMENT WAREHOUSE	40,000 SF	4,300
171-443	SECURITY POLICE/WSSF/TELECOM/	11,300 SF	2,550

1. COMPONENT ANG	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE JAN 90

3. INSTALLATION AND LOCATION
KULIS ANG BASE, ALASKA

11. PERSONNEL STRENGTH AS OF 31 MAY 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZED	312	30	258	24	1,061	144	917
ACTUAL	320	33	263	24	868	120	748

12. RESERVE UNIT DATA

UNIT DESIGNATION		STRENGTH AUTHORIZED	STRENGTH ACTUAL
144 TAS SQ		93	86
176 CEG SQ		78	70
176 CLM SQ		175	131
176 CMN FT		20	23
176 CMP GP		60	50
176 MAP FT		68	57
176 MSQ FT		37	33
176 MSQ SQ		49	48
176 RMS SQ		122	112
176 TCI CI		31	38
176 SEP FT		57	54
176 SVS FT		25	20
210 ARS SQ		246	146
	TOTALS	1,061	868

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ASSIGNED
C-130H Aircraft	8	8
HC-130H Aircraft	2	0
MH-60G	4	0
Support Equipment	60	59
Vehicle Equivalents	359	359

1. COMPONENT ANG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE JAN 1990

3. INSTALLATION AND LOCATION KULIS ANG BASE ALASKA	4. PROJECT TITLE FIRE SUPPRESSION SYSTEM

5. PROGRAM ELEMENT 55294F	6. CATEGORY CODE 880-232	7. PROJECT NUMBER MLRV000283	8. PROJECT COST($000) $4,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
FIRE SUPPRESSION SYSTEM	LS			2,708
FIRE SUPPRESSION SYSTEM	LS			(2,000)
WATER STORAGE TANK	GA	600,000	1	(600)
WATER PUMP STATION	SF	900	120	(108)
SUPPORTING FACILITIES				920
UTILITIES	LS			(600)
PAVEMENTS	LS			(80)
SITE IMPROVEMENTS	LS			(240)
SUBTOTAL				3,628
CONTINGENCY (5%)				181
TOTAL CONTRACT COST				3,809
SUPERVISION, INSPECTION AND OVERHEAD (5%)				190
TOTAL REQUEST				3,999
TOTAL REQUEST (ROUNDED)				4,000

10. Description of Proposed Construction: Install fire suppression system in Aircraft Maintenance Hangar and in Fuel Systems Maint Dock. Includes tie-in to municipal water system and construction of water storage tanks to provide adequate flow for fire suppression. All utilities and necessary support.

11. REQUIREMENT: As required.

PROJECT: Fire Suppression System (Current Mission).

REQUIREMENT: Construct new water lines, water storage tanks and pumps. Install central fire detection, alarm and suppression system. System is needed to protect base real property, equipment and personnel from unacceptable risk and/or loss due to fire.

CURRENT SITUATION: The base does not have an adequate water supply, fire detection, alarm and/or suppression system. The existing water system consists of a well and distribution lines built in 1958-1964. The age of the system and the fluctuating water table cause chronic water supply and pressure problems. All buildings on base have local fire alarms only. Fire suppression systems consist of fire extinguishers, fire hoses, fire fighting vehicles, water storage tanks and fire pumps. No Aqueous Film Foaming Foam (AFFF) system exists in the aircraft maintenance hangar or fuel systems maintenance hangar. This project will protect aircraft, equipment and facilities valued in excess of $75 million.

IMPACT IF NOT PROVIDED: Insufficient fire protection and high risks to base assets.

1. COMPONENT ANG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE JAN 1990
3. INSTALLATION AND LOCATION KULIS ANG BASE ALASKA		
4. PROJECT TITLE FIRE SUPPRESSION SYSTEM		5. PROJECT NUMBER MLRV000283

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 MAY 01
(b) Percent Complete as of Jan 90	65%
(c) Date 35% Designed	89 NOV 01
(d) Date Design Complete	90 SEP 01
(2) Basis:	
(a) Standard or Definitive Design -	
(b) Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	150
(b) All Other Design Costs	50
(c) Total	200
(d) Contract	200
(e) In-house	
(4) Construction Start	91 JUN

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT ANG	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE JAN 90
3. INSTALLATION AND LOCATION TUCSON INTERNATIONAL AIRPORT, ARIZONA		4. AREA CONSTR COST INDEX 1.00

5. FREQUENCY AND TYPE OF UTILIZATION
Four unit training assemblies per month, 15 days annual field training per year, daily use by technician/AGR force and for pilot training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
1 Air Firce Base, 1 Naval Reserve Unit, 1 Army Reserve Unit, 1 Army National Guard Unit, 1 Air Force Reserve Unit

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
113-321	ADD TO AIRCRAFT PARKING APRON	45,000 SY	2,300	APR 88	MAR 90
730-142	FIRE STATION	12,000 SF	1,200	APR 88	MAR 90

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved
1 JUN 89
(Date)

9. LAND ACQUISITION REQUIRED None
(Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)
131-111	ADD TO AND ALTER COMMUNICATIONS FACILITY	9,000 SF	870
219-944	ALTER BASE MAINTENANCE SHOP	13,000 SF	950
218-712	ALTER BLDG 30 FOR AGE	5,000 SF	250
722-351	DINING HALL/ MEDICAL TRAINING FACILITY	18,700 SF	2,900
124-135	JET FUEL STORAGE	10,000 BL	4,850
211-111	MAINTENANCE HANGAR	67,000 SF	6,200
124-135	REPLACE UNDERGROUND STORAGE TANKS	7 EA	420

1. COMPONENT ANG	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE JAN 90

3. INSTALLATION AND LOCATION
TUCSON INTERNATIONAL AIRPORT, ARIZONA

11. PERSONNEL STRENGTH AS OF 15 JUN 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZED	796	77	630	89	1,578	162	1,416
ACTUAL	768	73	610	85	1,535	151	1,384

12. RESERVE UNIT DATA

	STRENGTH	
UNIT DESIGNATION	AUTHORIZED	ACTUAL
148 TFT SQ	27	30
152 TFG SQ	22	18
162 CEG SQ	154	158
162 CLM SQ	786	735
162 CMN FT	21	21
162 MSQ FT	54	55
162 MSQ SQ	107	110
162 RMS SQ	159	160
162 TCI CI	73	76
162 TFG GP	97	95
162 SVS FT	43	40
195 TFT SQ	35	37
TOTALS	1,578	1,535

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ASSIGNED
A-7 D/K Aircraft	35	33
F-16 A/B Aircraft	24	26
C-130 Aircraft	1	1
Support Equipment	289	261
Vehicle Equivalents	414	426

1. COMPONENT ANG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE JAN 1990

3. INSTALLATION AND LOCATION TUCSON INTERNATIONAL AIRPORT ARIZONA	4. PROJECT TITLE ADD TO AIRCRAFT PARKING APRON

5. PROGRAM ELEMENT 55294F	6. CATEGORY CODE 113-321	7. PROJECT NUMBER XHEA001429	8. PROJECT COST($000) $2,300

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ADD TO AIRCRAFT PARKING APRON	SY	45,000	46	2,070
SUPPORTING FACILITIES				30
SITE IMPROVEMENTS	LS			(30)
SUBTOTAL				2,100
CONTINGENCY (5%)				105
TOTAL CONTRACT COST				2,205
SUPERVISION, INSPECTION AND OVERHEAD (5%)				110
TOTAL REQUEST				2,315
TOTAL REQUEST (ROUNDED)				2,300

10. Description of Proposed Construction: A concrete aircraft parking apron and arm/dearm pad. All utilities and support.

11. REQUIREMENT: 103,000 SY ADEQUATE: 58,000 SY SUBSTANDARD: 63,548 SY

PROJECT: Construction of paved area to provide space for aircraft parking, servicing and loading; construction of a paved arm/dearm area to be near new runway threshold (New mission).

REQUIREMENT: Additional apron is required for the 24 F-16 aircraft being added to the 35 A-7 aircraft already authorized for the 162 TFG. Existing apron will accommodate 34 aircraft.

CURRENT SITUATION: The 58,000 SY of parking apron constructed in FY88 is adequate for A-7 pilot training, however, the additional new aircraft and training mission requires additional apron space. The old, substandard parking apron area is not economically repairable and will be used for new aircraft support facilities as required for the unit's dual training mission, inaccordance with the approved base masterplan.

IMPACT IF NOT PROVIDED: Siting of programmed facilities required to support the dual training mission will be impossible on Guard-owned property. Base will be unable to accommodate all its assigned mission aircraft.

1. COMPONENT ANG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE JAN 1990

3. INSTALLATION AND LOCATION

TUCSON INTERNATIONAL AIRPORT ARIZONA

4. PROJECT TITLE ADD TO AIRCRAFT PARKING APRON	5. PROJECT NUMBER XHEA001429

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:

(a) Date Design Started	88 APR 13
(b) Percent Complete as of Jan 90	75%
(c) Date 35% Designed	88 AUG 01
(d) Date Design Complete	90 MAR 01

(2) Basis:
(a) Standard or Definitive Design -
(b) Where Design Was Most Recently Used -

(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	108
(b) All Other Design Costs	36
(c) Total	144
(d) Contract	144
(e) In-house	
(4) Construction Start	91 MAY

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT ANG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE JAN 1990

3. INSTALLATION AND LOCATION TUCSON INTERNATIONAL AIRPORT ARIZONA	4. PROJECT TITLE FIRE STATION

5. PROGRAM ELEMENT 55294F	6. CATEGORY CODE 730-142	7. PROJECT NUMBER XHEA001428	8. PROJECT COST($000) $1,200

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
FIRE STATION	SF	12,000	78	936
SUPPORTING FACILITIES				160
UTILITIES	LS			(55)
PAVEMENTS	LS			(60)
SITE IMPROVEMENTS	LS			(25)
DEMOLITION	LS			(20)
SUBTOTAL				1,096
CONTINGENCY (5%)				55
TOTAL CONTRACT COST				1,151
SUPERVISION, INSPECTION AND OVERHEAD (5%)				58
TOTAL REQUEST				1,209
TOTAL REQUEST (ROUNDED)				1,200

10. Description of Proposed Construction: Concrete floor, steel frame, masonry walls, built-up roof, and necessary mechanical & electrical systems. Includes access paving to apron and street. Demolish Bldg 47, 8,745SF.
Air Conditioning: 20 Tons.

11. REQUIREMENT: 12,000 SF ADEQUATE: 0 SUBSTANDARD: 8,745 SF

PROJECT: Fire Station (New Mission).

REQUIREMENT: A fire station is required for an increased number of firefighters and firefighting vehicles to support the increase in mission aircraft. Site of existing fire station is needed to erect a sound suppressor.

CURRENT SITUATION: Existing fire station is a converted alert barn with inadequate vehicle stalls, latrines, sleeping quarters and kitchen facilities. The Comprehensive Land Development Study completed in December 1985 recommends that the fire station be demolished to allow for the siting of a new power check pad with sound suppressor. Unit has added 24 F-16 aircraft to the 35 A-7 aircraft assigned, and will train firefighting students both types. Firefighting vehicles have increased from 7 to 8, and manning has increased from 42 to 48 firefighting personnel.

IMPACT IF NOT PROVIDED: Four of the assigned firefighting vehicles will not be sheltered. Firefighting personnel will function with substandard sleeping, dining, and operational facilities. Training would be affected, with possible adverse effects on firefighter response to emergencies.

1. COMPONENT ANG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE JAN 1990
3. INSTALLATION AND LOCATION TUCSON INTERNATIONAL AIRPORT ARIZONA		
4. PROJECT TITLE FIRE STATION		5. PROJECT NUMBER XHEA001428

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 APR 13
(b) Percent Complete as of Jan 90	75%
(c) Date 35% Designed	88 AUG 01
(d) Date Design Complete	90 MAR 01
(2) Basis:	
(a) Standard or Definitive Design -	
(b) Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	52
(b) All Other Design Costs	20
(c) Total	72
(d) Contract	72
(e) In-house	
(4) Construction Start	91 MAY

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT ANG	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE JAN 90
3. INSTALLATION AND LOCATION FT SMITH MUNICIPAL AIRPORT ANG, ARKANSAS		4. AREA CONSTR COST INDEX 0.96

5. FREQUENCY AND TYPE OF UTILIZATION
Four unit training assemblies per month, 15 days annual field training per year, daily use by technician/AGR force and for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
2 Army National Guard Armories, 1 Army Reserve and 1 Naval Reserve Center

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
730-142	ADD TO AND ALTER FIRE STATION	9,550 SF	530	APR 88	JUN 89
112-211	TAXIWAY	3,800 SY	400	APR 85	JAN 87

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved — 30 MAR 89
(Date)

9. LAND ACQUISITION REQUIRED None
(Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)
216-642	MUNITIONS MAINTENANCE AND STORAGE FACILITY	10,000 SF	2,200

1. COMPONENT ANG	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE JAN 90

3. INSTALLATION AND LOCATION
FT SMITH MUNICIPAL AIRPORT ANG, ARKANSAS

11. PERSONNEL STRENGTH AS OF 30 JUN 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZED	261	7	36	218	1,045	99	946
ACTUAL	262	7	36	219	984	104	880

12. RESERVE UNIT DATA

	STRENGTH	
UNIT DESIGNATION	AUTHORIZED	ACTUAL
184 TFG SQ	50	52
188 CEG SQ	142	134
188 CLM SQ	449	408
188 MSQ FT	37	38
188 MSQ SQ	49	46
188 RMS SQ	129	113
188 TCI CI	57	59
188 TFG GP	50	52
188 SEP FT	57	57
188 SVS FT	25	25
TOTALS	1,045	984

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ASSIGNED
F-16 A/B Aircraft	18	20
C-12 Aircraft	1	1
Support Equipment	110	92
Vehicle Equivalents	204	248

1. COMPONENT ANG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE JAN 1990

3. INSTALLATION AND LOCATION FT SMITH MUNICIPAL AIRPORT ANG ARKANSAS	4. PROJECT TITLE ADD TO AND ALTER FIRE STATION

5. PROGRAM ELEMENT 55294F	6. CATEGORY CODE 730-142	7. PROJECT NUMBER HKRZ001633	8. PROJECT COST($000) $530

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ADD TO AND ALTER FIRE STATION	LS			408
ADD TO FIRE STATION	SF	3,750	70	(263)
ALTER FIRE STATION	SF	5,800	25	(145)
SUPPORTING FACILITIES				70
SITE IMPROVEMENTS	LS			(10)
COMMUNICATIONS SUPPORT	LS			(10)
UTILITIES	LS			(10)
PAVEMENTS	LS			(30)
ASBESTOS REMOVAL	LS			(10)
SUBTOTAL				478
CONTINGENCY (5%)				24
TOTAL CONTRACT COST				502
SUPERVISION, INSPECTION AND OVERHEAD (5%)				25
TOTAL REQUEST				527
TOTAL REQUEST (ROUNDED)				530

10. Description of Proposed Construction: Add matching masonry and steel structure, with concrete drive to aircraft parking apron and asphaltic concrete pavements for POV parking. All utilities and support equipment.

11. REQUIREMENT: 9,550 SF ADEQUATE: 0 SUBSTANDARD: 5,800 SF

PROJECT: Add to and Alter Fire Station (New Mission).

REQUIREMENT: Fire station is needed to house 42 person fire department and fire protection vehicles. This project supports increases of personnel and equipment.

CURRENT SITUATION: Existing fire station cannot house assigned equipment. Some pieces must be parked outside resulting in increased maintenance requirements and wear. During periods of adverse weather, response time is increased. Also, full-time crash fire rescue is being instituted and sleeping quarters must be provided for firemen manning the station. The full time crash fire rescue is required to provide adequate fire protection for the flying activities and facilities.

IMPACT IF NOT PROVIDED: Continued parking of high value equipment outside will cause increased maintenance, decrease the readiness of the vehicle fleet. Lack of adequate facilities for increased manning will require rental of temporary trailers.

1. COMPONENT ANG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE JAN 1990

3. INSTALLATION AND LOCATION

FT SMITH MUNICIPAL AIRPORT ANG ARKANSAS

4. PROJECT TITLE ADD TO AND ALTER FIRE STATION	5. PROJECT NUMBER HKRZ001633

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 APR 13
(b) Percent Complete as of Jan 90	100%
(c) Date 35% Designed	88 AUG 01
(d) Date Design Complete	89 JUN 30
(2) Basis:	
(a) Standard or Definitive Design -	
(b) Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	26
(b) All Other Design Costs	16
(c) Total	42
(d) Contract	42
(e) In-house	
(4) Construction Start	91 APR

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT ANG	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE JAN 90
3. INSTALLATION AND LOCATION LITTLE ROCK AIR FORCE BASE, ARKANSAS		4. AREA CONSTR COST INDEX 0.87

5. FREQUENCY AND TYPE OF UTILIZATION

Four unit training assemblies per month, 15 days annual field training per year, daily use by technician/AGR force, instructors and students.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS

1 Air Force Reserve Facility, 3 Army National Guard Armories, 1 Army National Guard Complex, 5 Army Reserve Facilities, 1 Naval/Marine Complex.

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
171-443	COMPOSITE TRAINING FACILITY	LS	950	APR 88	MAR 90

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION

Unilateral Construction Approved — 20 JUN 88 (Date)

9. LAND ACQUISITION REQUIRED None ________ (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)

1. COMPONENT ANG	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE JAN 90

3. INSTALLATION AND LOCATION
LITTLE ROCK AIR FORCE BASE, ARKANSAS

11. PERSONNEL STRENGTH AS OF 31 MAY 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZED	354	33	115	206	1,105	157	948
ACTUAL	346	30	115	201	1,082	141	941

12. RESERVE UNIT DATA

UNIT DESIGNATION		STRENGTH AUTHORIZED	STRENGTH ACTUAL
000 AXD HQ		26	23
123 RTC SQ		81	76
154 TTR SQ		109	99
189 CEG SQ		150	140
189 CLI CI		49	48
189 CLM SQ		180	182
189 CMN FT		23	24
189 MAP FT		68	65
189 MSQ FT		26	26
189 MSQ SQ		71	72
189 RMS SQ		121	120
189 TAL GP		60	56
189 SEP FT		58	56
189 TAG HQ		60	61
8189 STU FT		23	34
	TOTALS	1,105	1,082

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ASSIGNED
C-130E Aircraft	10	10
Support Equipment	124	122
Vehicle Equivalents	196	196

1. COMPONENT ANG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE JAN 1990

3. INSTALLATION AND LOCATION LITTLE ROCK AIR FORCE BASE ARKANSAS	4. PROJECT TITLE COMPOSITE TRAINING FACILITY

5. PROGRAM ELEMENT 55294F	6. CATEGORY CODE 171-443	7. PROJECT NUMBER NKAK889508	8. PROJECT COST($000) $950

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
COMPOSITE TRAINING FACILITY	LS			688
GENERAL TRAINING SUPPORT	SF	4,650	85	(395)
OPERATIONAL TRAINING	SF	3,450	85	(293)
SUPPORTING FACILITIES				175
UTILITIES	LS			(60)
PAVEMENTS	LS			(55)
SITE IMPROVEMENTS	LS			(60)
SUBTOTAL				863
CONTINGENCY (5%)				43
TOTAL CONTRACT COST				906
SUPERVISION, INSPECTION AND OVERHEAD (5%)				45
TOTAL REQUEST				951
TOTAL REQUEST (ROUNDED)				950

10. Description of Proposed Construction: Masonry and steel construction with paved access and vehicle parking. All utilities and necessary support.
Air Conditioning: 20 Tons.

11. REQUIREMENT: 8,100 SF ADEQUATE: 0 SUBSTANDARD: 5,600 SF
PROJECT: Composite General Training Facility (New Mission).
REQUIREMENT: Construct a facility to support the general training for security police and the C-130 basic loadmaster and flight engineer courses. Space is required for training and operation of the weapons system security flight, and mobility storage space for the wartime mission of the flight and a storage vault for security police weapons. The C-130 training area is needed for two C-130 training courses that have been moved from Minneapolis to Little Rock for consolidation of C-130 basic training. The basic loadmaster course has 100 students per year in 12 classes, and the flight engineer course has about 50 students per year in 6 classes.
CURRENT SITUATION: No Air National Guard facility currently exists. Security police are temporarily occupying space in Air Force owned Building 210 and the C-130 training school is also temporarily housed in the same facility. The Air Force advised they need the building back and that permanent space for these functions is not available in other facilities.
IMPACT IF NOT PROVIDED: Inadequate training. Possible move of the courses to another location or lease temporary facilities.

1. COMPONENT ANG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE JAN 1990
3. INSTALLATION AND LOCATION LITTLE ROCK AIR FORCE BASE ARKANSAS		
4. PROJECT TITLE COMPOSITE TRAINING FACILITY		5. PROJECT NUMBER NKAK889508

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 APR 13
(b) Percent Complete as of Jan 90	75%
(c) Date 35% Designed	89 JUL 13
(d) Date Design Complete	90 MAR 01
(2) Basis:	
(a) Standard or Definitive Design -	
(b) Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	47
(b) All Other Design Costs	22
(c) Total	69
(d) Contract	69
(e) In-house	
(4) Construction Start	91 MAR

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT ANG	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE JAN 90
3. INSTALLATION AND LOCATION FRESNO ANG BASE, CALIFORNIA		4. AREA CONSTR COST INDEX 1.21

5. FREQUENCY AND TYPE OF UTILIZATION
Four unit training assemblies per month, 15 days annual field training per year, daily and night use by technician/AGR force for training

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
3 Army National Guard, 1 Army Reserve, 1 Naval Reserve Center, 1 Marine Corp Reserve and 1 Coast Guard Reserve.

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
730-142	FIRE STATION	9,700 SF	1,300	SEP 87	MAR 90
422-264	MUNITIONS IGLOOS	12,800 SF	2,600	APR 88	SEP 90

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved 1 JUL 88
(Date)

9. LAND ACQUISITION REQUIRED None
(Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)
141-181	ALERT FACILITY COMPLEX	11,000 LS	3,800
442-758	BASE SUPPLY WAREHOUSE	35,800 SF	3,800
851-147	SITE DEVELOPMENT AND UTILITIES	LS	3,850
214-425	VEHICLE MAINT/AGE FACILITY	20,300 SF	2,250

DD FORM 1390s, 1 DEC 76 Previous editions may be used. Page No b-23
Page 1 of 2

1. COMPONENT ANG	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE JAN 90

3. INSTALLATION AND LOCATION
FRESNO ANG BASE, CALIFORNIA

11. PERSONNEL STRENGTH AS OF 31 MAY 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZED	401	5	83	313	1,029	117	912
ACTUAL	394	5	83	306	997	107	890

12. RESERVE UNIT DATA

	STRENGTH	
UNIT DESIGNATION	AUTHORIZED	ACTUAL
144 CEG SQ	136	131
144 CLI CI	49	53
144 CLM SQ	372	370
144 FIN WG	61	73
144 MSQ FT	37	39
144 MSQ SQ	51	56
144 RMS SQ	124	116
144 SEP FT	85	81
194 FIN SQ	72	38
144 DET 01	17	16
144 SVS FT	25	24
TOTALS	1,029	997

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ASSIGNED
F-16 Aircraft	20	20
C-26 Aircraft	1	1
Lear Jet Aircraft	1	1
Support Equipment	107	120
Vehicle Equivalents	210	238

DD FORM 1390s, 1 DEC 76 Previous editions may be used. Page No b-24
Page 2 of 2

1. COMPONENT ANG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE JAN 1990

3. INSTALLATION AND LOCATION FRESNO ANG BASE CALIFORNIA	4. PROJECT TITLE FIRE STATION

5. PROGRAM ELEMENT 55294F	6. CATEGORY CODE 730-142	7. PROJECT NUMBER HAYW000230	8. PROJECT COST($000) $1,300

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
FIRE STATION	SF	9,700	100	970
SUPPORTING FACILITIES				205
UTILITIES	LS			(70)
PAVEMENTS	LS			(105)
SITE IMPROVEMENTS	LS			(30)
SUBTOTAL				1,175
CONTINGENCY (5%)				59
TOTAL CONTRACT COST				1,234
SUPERVISION, INSPECTION AND OVERHEAD (5%)				62
TOTAL REQUEST				1,296
TOTAL REQUEST (ROUNDED)				1,300

10. Description of Proposed Construction: A fire station constructed with reinforced concrete floors and walls include necessary structural, mechanical and electrical systems. Concrete pavements and driveways as required. Existing 2,500SF building will be converted into an AGE facility.
Air Conditioning: 8 Tons.

11. REQUIREMENT: 9,700 SF ADEQUATE: 0 SUBSTANDARD: 2,500 SF

PROJECT: Fire Station (Current Mission).

REQUIREMENT: An adequately sized and properly configured facility to support current Crash/Fire Rescue operations. This includes apparatus bays, storage space, extinguisher maintenance shop, kitchen and dining area, control room, classroom and administrative areas, bunkrooms for 24 hour operation of the 20 full time fire fighters.

CURRENT SITUATION: The existing 1955 vintage 2500 SF Fire Station is too small to properly support the fire protection and crash/rescue operations. Only two of the seven fire vehicles fit into the undersized apparatus bay. The administrative areas are segregated from the fire station. The control room cannot be manned 24 hours per day as there is no area for bedding and no adequate personnel accommodations.

IMPACT IF NOT PROVIDED: Fire fighting apparatus will remain exposed to the weather which accelerates deterioration. Hardships on the overall fire protection operation which ultimately jeopardizes crash/rescue and fire fighting capabilities.

1. COMPONENT ANG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE JAN 1990

3. INSTALLATION AND LOCATION

FRESNO ANG BASE CALIFORNIA

4. PROJECT TITLE FIRE STATION	5. PROJECT NUMBER HAYW000230

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:

(a) Date Design Started	87 SEP 10
(b) Percent Complete as of Jan 90	95%
(c) Date 35% Designed	89 MAR 30
(d) Date Design Complete	90 MAR 01

(2) Basis:
(a) Standard or Definitive Design -
(b) Where Design Was Most Recently Used -

(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	83
(b) All Other Design Costs	59
(c) Total	142
(d) Contract	142
(e) In-house	

(4) Construction Start	91 MAY

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT ANG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE JAN 1990

3. INSTALLATION AND LOCATION FRESNO ANG BASE CALIFORNIA	4. PROJECT TITLE MUNITIONS IGLOOS

5. PROGRAM ELEMENT 55294F	6. CATEGORY CODE 422-264	7. PROJECT NUMBER HAYW001533	8. PROJECT COST($000) $2,600

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
MUNITIONS IGLOOS	SF	12,800	150	1,920
SUPPORTING FACILITIES				425
UTILITIES	LS			(30)
FENCING	LS			(25)
PAVEMENTS	LS			(370)
SUBTOTAL				2,345
CONTINGENCY (5%)				117
TOTAL CONTRACT COST				2,462
SUPERVISION, INSPECTION AND OVERHEAD (5%)				123
TOTAL REQUEST				2,585
TOTAL REQUEST (ROUNDED)				2,600

10. Description of Proposed Construction: Earth-covered munitions storage igloos, constructed of reinforced concrete with blast doors, vehicle paved accesss, security fencing, and concrete blast walls.

11. REQUIREMENT: 17,248 SF ADEQUATE: 0 SUBSTANDARD: 4,448 SF

PROJECT: Munition Igloos (New Mission).

REQUIREMENT: This project supports the conversion of F-4 to F-16 CONUS Air Defense aircraft. Construct 4 igloos at 3200 SF each. Igloos are required to store live missiles (Aim-7 and Aim-9) and other live munitions components. Paving and access road are required from ammo storage area to aircraft parking apron.

CURRENT SITUATION: The current igloos are undersized, do not meet quantity-distance criteria for new missiles and cannot accomodate new style up-round containers. Facility is currently operating under numerous safety waivers. Vacated facilities will be reused to support other, less stringent munition functions.

IMPACT IF NOT PROVIDED: The unit cannot store live missiles and will not be able to perform its CONUS Air Defense alert mission.

1. COMPONENT ANG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE JAN 1990
3. INSTALLATION AND LOCATION FRESNO ANG BASE CALIFORNIA		
4. PROJECT TITLE MUNITIONS IGLOOS		5. PROJECT NUMBER HAYW001533

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:

(a) Date Design Started	88 APR 13
(b) Percent Complete as of Jan 90	75%
(c) Date 35% Designed	88 AUG 01
(d) Date Design Complete	90 SEP 01

(2) Basis:
(a) Standard or Definitive Design -
(b) Where Design Was Most Recently Used -

(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	116
(b) All Other Design Costs	56
(c) Total	172
(d) Contract	172
(e) In-house	
(4) Construction Start	91 AUG

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT ANG	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE JAN 90
3. INSTALLATION AND LOCATION CAMP BLANDING MILITARY RESERVATION,FLORIDA		4. AREA CONSTR COST INDEX 0.82

5. FREQUENCY AND TYPE OF UTILIZATION
Four unit training assemblies per month, 15 days annual field training per year, daily use by technician/AGR force and for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
1 Army National Guard Armory, 1 Naval Facility

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
442-758	BASE SUPPLY AND EQUIPMENT WAREHOUSE	12,800 SF	1,100	APR 88	MAR 90
171-443	COMPOSITE GENERAL SUPPORT AND TRAINING FACILITY	17,800 SF	1,800	APR 88	MAR 90

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved 24 JAN 88
(Date)

9. LAND ACQUISITION REQUIRED None
(Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)
219-944	CIVIL ENGINEER HEAVY EQUIPMENT SHOP	4,000 SF	500
219-944	CIVIL ENGINEER MAINTENANCE SHOPS	16,200 SF	1,500
214-425	VEHICLE MAINTENANCE SHOP	11,500 SF	1,250

DD FORM 1390s, 1 DEC 76 Previous editions may be used. Page No b-29
Page 1 of 2

1. COMPONENT ANG	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE JAN 90

3. INSTALLATION AND LOCATION
CAMP BLANDING MILITARY RESERVATION,FLORIDA

11. PERSONNEL STRENGTH AS OF 31 MAY 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZED	30	3	25	2	219	10	209
ACTUAL	30	3	25	2	213	6	207

12. RESERVE UNIT DATA

	STRENGTH	
UNIT DESIGNATION	AUTHORIZED	ACTUAL
202 CES HR	219	213
TOTALS	219	213

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ASSIGNED
Vehicle & Construction Equipment	65	58
Support Equipment	0	0
Vehicle Equivalents	169	166

DD FORM 1390s, 1 DEC 76 Previous editions may be used. Page No b-30
Page 2 of 2

1. COMPONENT ANG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE JAN 1990

3. INSTALLATION AND LOCATION CAMP BLANDING MILITARY RESERVATION FLORIDA	4. PROJECT TITLE BASE SUPPLY AND EQUIPMENT WAREHOUSE

5. PROGRAM ELEMENT 55294F	6. CATEGORY CODE 442-758	7. PROJECT NUMBER UUUU000860	8. PROJECT COST($000) $1,100

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
BASE SUPPLY AND EQUIPMENT WAREHOUSE	LS			760
BASE SUPPLIES AND EQUIP WHSE	SF	8,800	50	(440)
BASE SUPPLY ADMINISTRATION	SF	4,000	80	(320)
SUPPORTING FACILITIES				255
UTILITIES	LS			(90)
PAVEMENTS	LS			(115)
SITE IMPROVEMENTS	LS			(50)
SUBTOTAL				1,015
CONTINGENCY (5%)				51
TOTAL CONTRACT COST				1,066
SUPERVISION, INSPECTION AND OVERHEAD (5%)				53
TOTAL REQUEST				1,119
TOTAL REQUEST (ROUNDED)				1,100

10. Description of Proposed Construction: Concrete floor slab on grade, structural steel frame, masonry or insulated stucco panel walls, sloped metal insulated roof, loading dock with levelers. Include all necessary utilities, pavements and fire protection.
Air Conditioning: 20 Tons.

11. REQUIREMENT: 12,800 SF ADEQUATE: 0 SUBSTANDARD: 8,000 SF
PROJECT: A Base Supply and Equipment Warehouse Facility (New Mission).
REQUIREMENT: This is a Congressional directed project. This project supports the construction of permanent facilities for the beddown of the Civil Engineering Red Horse Squadron. A base supply and equipment warehouse facility is required to support the 202nd RED HORSE unit's relocation from Army National Guard property to ANG licensed area on Camp Blanding. Functional areas include supply warehouse issue, receiving and storage, and administration offices and break room. The Red Horse Squadron has worldwide mobility and is a vital element in the beddown of US forces at COB's and other Bare Base locations.
CURRENT SITUATION: The 202 RED HORSE squadron requires a facility for the storage of mobility deployment equipment to support their world wide misson. They are currently housed in a grossly inadequate and inefficient WWII temporary facilities which belong to the ARNG. The Army wants the return of their facilities and the 202nd requires an area to consolidate their manpower and equipment.
IMPACT IF NOT PROVIDED: Inefficient training. Poor supply mamagement and discipline, inefficient use of resources.
ADDITIONAL: FY-91 related project: UUUU889500, Composite General Support and Training Facility.

1. COMPONENT ANG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE JAN 1990
3. INSTALLATION AND LOCATION CAMP BLANDING MILITARY RESERVATION FLORIDA		
4. PROJECT TITLE BASE SUPPLY AND EQUIPMENT WAREHOUSE		5. PROJECT NUMBER UUUU000860

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 APR 08
(b) Percent Complete as of Jan 90	75%
(c) Date 35% Designed	88 DEC 19
(d) Date Design Complete	90 MAR 01
(2) Basis:	
(a) Standard or Definitive Design -	
(b) Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	47
(b) All Other Design Costs	16
(c) Total	63
(d) Contract	63
(e) In-house	
(4) Construction Start	91 JUN

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT ANG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE JAN 1990

3. INSTALLATION AND LOCATION CAMP BLANDING MILITARY RESERVATION FLORIDA	4. PROJECT TITLE COMPOSITE GENERAL SUPPORT AND TRAINING FACILITY

5. PROGRAM ELEMENT 55294F	6. CATEGORY CODE 171-443	7. PROJECT NUMBER UUUU889500	8. PROJECT COST($000) $1,800

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
COMPOSITE SUPPORT AND TRAINING FACILITY	LS			1,436
TRAINING OFFICE	SF	11,000	70	(770)
DISASTER PREPAREDNESS OFFICE	SF	3,000	70	(210)
DINING HALL	SF	3,800	120	(456)
SUPPORTING FACILITIES				205
UTILITIES	LS			(60)
PAVEMENTS	LS			(45)
SITE IMPROVEMENTS	LS			(50)
SYSTEM FORNITURE	LS			(50)
SUBTOTAL				1,641
CONTINGENCY (5%)				82
TOTAL CONTRACT COST				1,723
SUPERVISION, INSPECTION AND OVERHEAD (5%)				86
TOTAL REQUEST				1,809
TOTAL REQUEST (ROUNDED)				1,800

10. Description of Proposed Construction: Masonry and steel construction with concrete sidewalks and paved parking. All utilities and necessary support.
Air Conditioning: 50 Tons.

11. REQUIREMENT: 17,800 ADEQUATE: 0 SUBSTANDARD: 12,000

PROJECT: Composite General Support and Training Facility (New Mission).

REQUIREMENT: This is a Congressionally requested project. Construct permanent facilities for beddown of the newly organized Civil Engineering RED HORSE Squadron. Facility to provide an administrative, disaster preparedeness, training and dining facility for the RED HORSE squadron at Camp Blanding.

CURRENT SITUATION: Squadron is temporarily housed in a WWII temporary facility that is not within the limits of the ANG property. By agreement the facility is to revert back to the Army National Guard upon completion of this project. The existing facility is not adequate for the unit's mission and has been made liveable only through self-help efforts of unit personnel.

IMPACT IF NOT PROVIDED: Inefficient training. Inefficient use of resources. ANG will not be able to transfer the building back to the Army Guard.

ADDITIONAL: FY 91 related project: UUUU000860, Base Supply and Equipment Warehouse.

1. COMPONENT ANG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE JAN 1990

3. INSTALLATION AND LOCATION

CAMP BLANDING MILITARY RESERVATION FLORIDA

4. PROJECT TITLE COMPOSITE GENERAL SUPPORT AND TRAINING FACILITY	5. PROJECT NUMBER UUUU889500

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 APR 14
(b) Percent Complete as of Jan 90	75%
(c) Date 35% Designed	88 DEC 19
(d) Date Design Complete	90 MAR 01
(2) Basis:	
(a) Standard or Definitive Design -	
(b) Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	99
(b) All Other Design Costs	33
(c) Total	132
(d) Contract	132
(e) In-house	
(4) Construction Start	91 JUN

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT ANG	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE JAN 90
3. INSTALLATION AND LOCATION GREATER PEORIA AIRPORT ANG, ILLINOIS		4. AREA CONSTR COST INDEX 0.97

5. FREQUENCY AND TYPE OF UTILIZATION
Four unit training assemblies per month, four rescheduled unit training assemblies, 15 days annual training per year, daily use by technician/AGR force.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
1 Army National Guard Armory, 1 Naval Reserve, 1 Marine Corps Reserve, 1 Army Reserve Center and 1 Coast Guard Reserve.

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
730-142	FIRE STATION	7,200 SF	1,100	AUG 87	MAR 90
211-179	FUEL SYSTEMS MAINTENANCE AND CORROSION CONTROL FACILITY	17,000 SF	2,000	JUL 85	MAY 88

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved 29 MAR 89
(Date)

9. LAND ACQUISITION REQUIRED None
(Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)
216-642	ADD TO AND ALTER CONVENTIONAL MUNITIONS SHOP	8,000 SF	1,000
219-944	BASE CIVIL ENGINEER MAINTENANCE FACILITY	12,900 SF	1,700
171-445	COMPOSITE OPERATIONS AND TRAINING FACILITY	45,500 SF	5,000
171-443	SECURITY POLICE OPERATIONS FACILITY	5,400 SF	500
851-147	SITE PREPARATION PHASE III	LS	3,000
214-425	VEHICLE MAINTENANCE COMPLEX	13,500 SF	2,200

1. COMPONENT ANG	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE JAN 90

3. INSTALLATION AND LOCATION
GREATER PEORIA AIRPORT ANG, ILLINOIS

11. PERSONNEL STRENGTH AS OF 25 MAY 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZED	222	4	43	175	988	128	860
ACTUAL	214	4	43	167	1,012	120	892

12. RESERVE UNIT DATA

UNIT DESIGNATION	STRENGTH AUTHORIZED	STRENGTH ACTUAL
169 TAS SQ	104	104
182 CEG SQ	124	121
182 CEM SQ	77	74
182 CLM SQ	225	223
182 DAC SQ	51	48
182 MSQ FT	37	35
182 MSQ SQ	50	48
182 RMS SQ	121	123
182 TAS GP	47	44
182 TCI CI	70	65
182 SEP FT	57	53
182 SVS FT	25	25
8182 STU FT	0	49
TOTALS	988	1,012

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ASSIGNED
OA-37 Aircraft	18	18
C-26A Aircraft	1	1
Support Equipment	65	65
Vehicle Equivalents	471	489

1. COMPONENT ANG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE JAN 1990

3. INSTALLATION AND LOCATION GREATER PEORIA AIRPORT ANG ILLINOIS	4. PROJECT TITLE FIRE STATION

5. PROGRAM ELEMENT 55294F	6. CATEGORY CODE 730-142	7. PROJECT NUMBER JLQN001037	8. PROJECT COST($000) $1,100

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
FIRE STATION	SF	7,200	110	792
SUPPORTING FACILITIES				195
UTILITIES	LS			(65)
PAVEMENTS	LS			(85)
SITE IMPROVEMENTS	LS			(30)
COMMUNICATIONS	LS			(15)
SUBTOTAL				987
CONTINGENCY (5%)				49
TOTAL CONTRACT COST				1,036
SUPERVISION, INSPECTION AND OVERHEAD (5%)				52
TOTAL REQUEST				1,088
TOTAL REQUEST (ROUNDED)				1,100

10. Description of Proposed Construction: Masonary walls, concrete foundation and floor slabs, steel frame, built-up roof, overhead doors, utilities and support pavements.
Air Conditioning: 7 Tons.

11. REQUIREMENT: 7,200 SF ADEQUATE: 0 SUBSTANDARD: 2,500 SF
PROJECT: Fire Station (New Mission).
REQUIREMENT: Provide facility to support crash rescue and structural firefighting to support the relocation of 182 TASG on Greater Peoria Airport, Il. Functional areas include 5 vehicle bays, administration area, classroom, bunk room, kitchen/dining area and mechanical room. This requirement is driven by a feasibility study completed 11 July 1985 and approved by Air Force. The study determined that a total base relocation to the south side of Greater Peoria Airport is essential to support future missions. This project is part of a multi-year phased effort that started in 1987 and be completed in FY93. The aircraft and most of the high value maintenance facilities have been relocated to the new area.
CURRENT SITUATION: The present fire station has inadequate space to house the current number of fire crash/rescue vehicles and there is no adequate administrative and classroom area.
IMPACT IF NOT PROVIDED: Due to geographical and regulatory constraints, the present base location cannot accept a future ANG mission. There will be a split operation of facilities when the aircraft are moved to the new area and the old fire station will remain on the old side of the airport.
ADDITIONAL: FY 91 related projects: JLQN001046, Fuel Systems Maintenance and Corrosion Control Facility.

1. COMPONENT ANG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE JAN 1990
3. INSTALLATION AND LOCATION GREATER PEORIA AIRPORT ANG ILLINOIS		
4. PROJECT TITLE FIRE STATION		5. PROJECT NUMBER JLON001037

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	87 AUG 19
(b) Percent Complete as of Jan 90	75%
(c) Date 35% Designed	88 AUG 11
(d) Date Design Complete	90 MAR 01
(2) Basis:	
(a) Standard or Definitive Design -	
(b) Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	48
(b) All Other Design Costs	30
(c) Total	78
(d) Contract	78
(e) In-house	
(4) Construction Start	91 MAY

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT ANG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE JAN 1990

3. INSTALLATION AND LOCATION GREATER PEORIA AIRPORT ANG ILLINOIS	4. PROJECT TITLE FUEL SYSTEMS MAINTENANCE AND CORROSION CONTROL FACILITY

5. PROGRAM ELEMENT 55294F	6. CATEGORY CODE 211-179	7. PROJECT NUMBER JLQN001046	8. PROJECT COST($000) $2,000

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
FUEL SYSTEMS AND CORROSION CONTROL FAC	SF	17,000	98	1,666
SUPPORTING FACILITIES				150
UTILITIES	LS			(45)
PAVEMENTS	LS			(80)
SITE IMPROVEMENTS	LS			(25)
SUBTOTAL				1,816
CONTINGENCY (5%)				91
TOTAL CONTRACT COST				1,907
SUPERVISION, INSPECTION AND OVERHEAD (5%)				95
TOTAL REQUEST				2,002
TOTAL REQUEST (ROUNDED)				2,000

10. Description of Proposed Construction: A hangar with concrete floor slabs, masonry walls, structural steel frame with metal panels, single-ply membrane door and insulation and all utilities and support.

11. REQUIREMENT: 17,000 SF ADEQUATE: 0 SUBSTANDARD: 11,790 SF

PROJECT: Fuel System Maintenance and Corrosion Control (New Mission).

REQUIREMENT: Facility for the repair of aircraft fuel cells and bladders, and the performance of corrosion control. Functional areas include fuel cell hangar bay, corrosion control hangar bay, bladder repair shop, support shop space and approach apron to hangar. Requirement is driven by a feasibility study completed 11 July 1985 and approved by Air Force. The study determined that a total base relocation to the south side of the Greater Peoria Airport is essential to support future missions. This project is part of a multi-year phased effort started in 1987 to be completed in FY93.

CURRENT SITUATION: Inadequate converted shelter cannot be brought to standards to support fuel cell repair. Corrosion control cannot be performed during fuel cell repair. Existing facilities will be made available to other DOD agencies.

IMPACT IF NOT PROVIDED: When the base is relocated to the other side of the airport, the mission cannot be supported if this facility remains where it is. Split operation with continued fuel cell repair in an inadequate and unsafe facility. Inability to perform corrosion control when fuel cell work is in progress will contribute to degradation of high cost aircraft and flight safety.

ADDITIONAL: FY 91 related projects: JLQN001037, Fire Station.

1. COMPONENT ANG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE JAN 1990
3. INSTALLATION AND LOCATION GREATER PEORIA AIRPORT ANG ILLINOIS		
4. PROJECT TITLE FUEL SYSTEMS MAINTENANCE AND CORROSION CONTROL FACILITY		5. PROJECT NUMBER JLON001046

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	85 JUL 03
(b) Percent Complete as of Jan 90	100%
(c) Date 35% Designed	87 FEB 17
(d) Date Design Complete	88 MAY 01
(2) Basis:	
(a) Standard or Definitive Design -	
(b) Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	88
(b) All Other Design Costs	39
(c) Total	127
(d) Contract	127
(e) In-house	
(4) Construction Start	91 MAR

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT ANG	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE JAN 90
3. INSTALLATION AND LOCATION BANGOR AIR NATIONAL GUARD BASE, MAINE		4. AREA CONSTR COST INDEX 0.88

5. FREQUENCY AND TYPE OF UTILIZATION
Four unit training assemblies per month, 15 days annual training per year, daily use by technician/AGR force and for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
3 Army National Guard Units, 1 Army Reserve Facility and 1 Naval Reserve Facility.

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
880-232	FIRE SUPPRESSION SYSTEM	LS	1,350	JAN 85	AUG 90

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved — 26 OCT 88
(Date)

9. LAND ACQUISITION REQUIRED None
(Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)
113-321	AIRCRAFT PARKING APRON AND HYDRANT SYSTEM	107,000 SY	19,100
219-944	ALTER HANGAR FOR BCE/MOTOR POOL/COMMUNICATIONS FLIGHT	39,900 SF	2,500
211-173	COMPOSITE AIRCRAFT MAINTENANCE HANGAR	30,100 SF	10,400
141-183	DETACHED ALERT COMPLEX	LS	7,200
211-179	FUEL MAINTENANCE DOCK	26,700 SF	4,300
124-135	JET FUEL STORAGE AND DISTRIBUTION SYSTEM	15,000 BL	4,650
124-135	REPLACE UNDERGROUND FUEL STORAGE TANKS	62 EA	3,350

1. COMPONENT ANG	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE JAN 90

3. INSTALLATION AND LOCATION
BANGOR AIR NATIONAL GUARD BASE, MAINE

11. PERSONNEL STRENGTH AS OF 1 JUN 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZED	315	20	221	74	1,103	127	976
ACTUAL	306	20	212	74	1,056	132	924

12. RESERVE UNIT DATA

	STRENGTH	
UNIT DESIGNATION	AUTHORIZED	ACTUAL
101 ARH WG	72	63
101 CEG SQ	187	185
101 CLI CI	50	47
101 CLM SQ	359	304
101 MSQ FT	37	37
101 MSQ SQ	53	49
101 RMS SQ	124	122
101 SEP FT	103	101
101 AREFS	74	73
101 SVS FT	27	24
158 FIG	17	17
8101 STU FT	0	34
TOTALS	1,103	1,056

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ASSIGNED
KC-135E Aircraft	10	10
F-16 Aircraft	4	4
Support Equipment	103	98
Vehicle Equivalents	403	408

1. COMPONENT ANG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE JAN 1990

3. INSTALLATION AND LOCATION BANGOR AIR NATIONAL GUARD BASE MAINE	4. PROJECT TITLE FIRE SUPPRESSION SYSTEM

5. PROGRAM ELEMENT 55294F	6. CATEGORY CODE 880-232	7. PROJECT NUMBER FKNN000050	8. PROJECT COST($000) $1,350

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
FIRE SUPPRESSION SYSTEM	LS			950
SUPPORTING FACILITIES				275
WATER DISTRIBUTION LINE AND TANK	LS			(200)
UTILITIES	LS			(75)
SUBTOTAL				1,225
CONTINGENCY (5%)				61
TOTAL CONTRACT COST				1,286
SUPERVISION, INSPECTION AND OVERHEAD (5%)				64
TOTAL REQUEST				1,350
TOTAL REQUEST (ROUNDED)				1,350

10. Description of Proposed Construction: A fire protection system which includes water line connections, water storage tank, pumping systems, pre-action dry pipe sprinkler system, automatic detection and manual pull box alarm system, tie-ins to existing alarm system, and transmit/receive equipment from individual facilities.

11. REQUIREMENT: As required.

PROJECT: Fire Detection/Suppression System (Current Mission).

REQUIREMENT: The high value of the KC-135 aircraft, supporting equipment and facilities warrants adequate fire detection and suppression to preclude loss due to fire.

CURRENT SITUATION: Few of the base facilities are properly alarmed or protected. Water pressure in the current system is unacceptably low and fire fighting capabilities are limited. This project would protect in excess of $75 Million worth of facilities and equipment.

IMPACT IF NOT PROVIDED: Current conditions are conducive to extensive loss and damage of aircraft, equipment, buildings and life. Any such loss could severely impair mission capability.

1. COMPONENT ANG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE JAN 1990
3. INSTALLATION AND LOCATION BANGOR AIR NATIONAL GUARD BASE MAINE		
4. PROJECT TITLE FIRE SUPPRESSION SYSTEM		5. PROJECT NUMBER FKNN000050

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	85 JAN 23
(b) Percent Complete as of Jan 90	95%
(c) Date 35% Designed	85 OCT 28
(d) Date Design Complete	90 AUG 01
(2) Basis:	
(a) Standard or Definitive Design -	
(b) Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	17
(b) All Other Design Costs	26
(c) Total	43
(d) Contract	43
(e) In-house	
(4) Construction Start	91 JUL

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT ANG	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE JAN 90
3. INSTALLATION AND LOCATION MARTIN STATE AIRPORT ANG, MARYLAND		4. AREA CONSTR COST INDEX 0.77

5. FREQUENCY AND TYPE OF UTILIZATION
Four unit training assemblies per month, 15 days annual field training per year, daily use by technician/AGR force and for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
12 Army National Guard Armories, 5 Army Reserve Facilities, 1 US Naval Reserve Center and 1 USMC Reserve Center.

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
171-450	ALTER COMPOSITE SUPPORT FACILITY	LS	600	FEB 87	MAR 90

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved — 4 JAN 88 (Date)

9. LAND ACQUISITION REQUIRED None ____ (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)
812-000	RELOCATE UTILITY LINES	LS	3,500

1. COMPONENT ANG	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE JAN 90

3. INSTALLATION AND LOCATION
MARTIN STATE AIRPORT ANG, MARYLAND

11. PERSONNEL STRENGTH AS OF 31 MAY 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZED	425	3	104	318	1,842	236	1,606
ACTUAL	418	3	101	314	1,770	236	1,534

12. RESERVE UNIT DATA

UNIT DESIGNATION	STRENGTH AUTHORIZED	ACTUAL
104 TFG SQ	51	45
135 CEG SQ	145	118
135 CLM SQ	180	176
135 MAP FT	69	67
135 MSQ SQ	74	67
135 MSQ FT	26	25
135 RMS SQ	121	114
135 TAL GP	60	52
135 TAL SQ	81	86
135 TCI CI	30	30
135 SEP FT	58	59
175 CEG SQ	100	93
175 CLM SQ	403	366
175 CMN FT	21	28
175 MSQ FT	37	36
175 MSQ SQ	74	68
175 RMS SQ	121	112
175 TCI CI	37	34
175 TFG GP	58	58
175 SEP FT	57	56
235 CEG FT	39	34
8135 STU FT	0	22
8175 STU FT	0	24
TOTALS	1,842	1,770

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ASSIGNED
C-130 Aircraft	8	8
A-10 Aircraft	18	20
Support Equipment	104	97
Vehicle Equivalents	305	261

1. COMPONENT ANG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE JAN 1990

3. INSTALLATION AND LOCATION MARTIN STATE AIRPORT ANG MARYLAND	4. PROJECT TITLE ALTER COMPOSITE SUPPORT FACILITY

5. PROGRAM ELEMENT 55294F	6. CATEGORY CODE 171-450	7. PROJECT NUMBER PJMS889720	8. PROJECT COST($000) $600

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ALTER COMPOSITE SUPPORT FACILITY	LS			542
ALTER MEDICAL TRAINING	SF	9,300	30	(279)
ALTER CBPO FACILITY	SF	6,300	25	(158)
ALTER BASE PHOTO & CCTV	SF	3,000	35	(105)
SUBTOTAL				542
CONTINGENCY (5%)				27
TOTAL CONTRACT COST				569
SUPERVISION, INSPECTION AND OVERHEAD (5%)				28
TOTAL REQUEST				597
TOTAL REQUEST (ROUNDED)				600

10. Description of Proposed Construction: Upgrade mechanical and electrical systems. Renovate office areas occupied by Medical, CBPO and Base Photo personnel.

11. REQUIREMENT: 18,600 SF ADEQUATE: 0 SUBSTANDARD: 18,600 SF

PROJECT: Alter Composite Support Facility (Current Mission).

REQUIREMENT: The base requires adequate facilities to house medical training, consolidated base personnel and base photo with a CCTV function.

CURRENT SITUATION: Upon completion of new Project PJMS000052, Composite Support Facility, authorized and appropriated in FY 90, portions of bldg 1080 will be vacated by personnel moving into the new facility. Under this project, bldg 1080 renovation will accomodate the medical, CBPO and base photo lab.

IMPACT IF NOT PROVIDED: Operation training mission requirements of both organization will be seriously jeopardized due to forced sharing of existing facilities.

1. COMPONENT ANG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE JAN 1990
3. INSTALLATION AND LOCATION MARTIN STATE AIRPORT ANG MARYLAND		
4. PROJECT TITLE ALTER COMPOSITE SUPPORT FACILITY		5. PROJECT NUMBER PJMS889720

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	87 FEB 01
(b) Percent Complete as of Jan 90	95%
(c) Date 35% Designed	88 SEP 01
(d) Date Design Complete	90 MAR 01
(2) Basis:	
(a) Standard or Definitive Design -	
(b) Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	29
(b) All Other Design Costs	14
(c) Total	43
(d) Contract	43
(e) In-house	
(4) Construction Start	91 JUN

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT ANG	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE JAN 90
3. INSTALLATION AND LOCATION SELFRIDGE ANG BASE, MICHIGAN		4. AREA CONSTR COST INDEX 1.07

5. FREQUENCY AND TYPE OF UTILIZATION

Four unit training assemblies per month, 15 days annual field training per year, daily use by technician/AGR force and for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS

5 Army Reserve Centers, 2 Army National Guard Armories and 1 Naval Armory.

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
217-712	ADD TO AND ALTER AVIONICS SHOP	LS	650	MAY 88	SEP 90
218-868	ADD TO AND ALTER PRECISION MEASURING EQUIP LAB	1,700 SF	600	MAY 88	MAR 90
422-256	ADD TO MUNITIONS MAINTENANCE AND STORAGE	8,800 SF	640	MAY 88	SEP 90

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION

Unilateral Construction Approved — 17 FEB 88 (Date)

9. LAND ACQUISITION REQUIRED None ________ (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)
219-944	BASE CIVIL ENGINEER MAINTENANCE SHOPS	30,000 SF	3,600
219-944	BASE CIVIL ENGINEER ROADS AND GROUNDS FACILITY	14,000 SF	2,000
171-450	COMPOSITE MEDICAL TRAINING AND DINING FACILITY(ANG/AFRES)	40,600 SF	3,000
722-351	DINING HALL (JOINT W/AFRES)	16,000 SF	1,400
124-135	REPLACE UNDERGROUND FUEL	75 EA	4,400

1. COMPONENT ANG	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE JAN 90

3. INSTALLATION AND LOCATION
SELFRIDGE ANG BASE, MICHIGAN

11. PERSONNEL STRENGTH AS OF 31 MAY 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZED	2,786	142	899	1,745	6,475	849	5,626
ACTUAL	2,633	133	900	1,600	6,109	825	5,284

12. RESERVE UNIT DATA

	STRENGTH	
UNIT DESIGNATION	AUTHORIZED	ACTUAL
127 TFW	975	995
191 FIG	1,077	1,073
305 ARRS	225	233
927 TAG	898	945
45 AEF	65	59
TOTALS	3,240	3,305

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ASSIGNED
A-7D/K Aircraft	25	25
F-16 Aircraft	18	0
C-130A/E Aircraft	9	9
F-4D Aircraft	18	18
HC-130H/N Aircraft	4	4
HH-3E	3	4
Support Equipment	238	238
Vehicle Equivalents	971	979

1. COMPONENT ANG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE JAN 1990

3. INSTALLATION AND LOCATION SELFRIDGE ANG BASE MICHIGAN	4. PROJECT TITLE ADD TO AND ALTER AVIONICS SHOP

5. PROGRAM ELEMENT 55294F	6. CATEGORY CODE 217-712	7. PROJECT NUMBER VGLZ889623	8. PROJECT COST($000) $650

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ADD TO AND ALTER AVIONICS SHOP	LS			508
ADD TO AVIONICS SHOP	SF	2,300	85	(196)
ALTER AVIONICS SHOP	SF	10,400	30	(312)
SUPPORTING FACILITIES				80
UTILITIES	LS			(60)
PAVEMENTS	LS			(10)
SITE IMPROVEMENTS	LS			(10)
SUBTOTAL				588
CONTINGENCY (5%)				29
TOTAL CONTRACT COST				617
SUPERVISION, INSPECTION AND OVERHEAD (5%)				31
TOTAL REQUEST				648
TOTAL REQUEST (ROUNDED)				650

10. Description of Proposed Construction: Addition and alteration of the Avionics Shop with concrete foundation and floor, structural frame and exterior to match existing facility. All utilities, support and required pavement.

11. REQUIREMENT: 12,700 SF ADEQUATE: 0 SUBSTANDARD: 10,400 SF

PROJECT: An addition to and alteration of the Avionics Shop (New Mission).

REQUIREMENT: This project supports the conversion of the A-7 to F-16 aircraft. Avionics requires an addition to house the increase in equipment for the new mission.

CURRENT SITUATION: Existing avionics shop will not accomodate new aircraft automatic test equipment, electrical standards set and avionics flight line shops. Additional space and electrical systems are required to support the mission.

IMPACT IF NOT PROVIDED: New mission cannot be bedded down without an adequate Avionics Shop. Project is essential to a successful aircraft conversion.

ADDITIONAL: FY 91 related project: VGLZ889621, Add Munitions Maintenance and Storage and VGLZ001565, Add to and Alter Precision Measuring Equip Lab.

1. COMPONENT ANG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE JAN 1990
3. INSTALLATION AND LOCATION SELFRIDGE ANG BASE MICHIGAN		
4. PROJECT TITLE ADD TO AND ALTER AVIONICS SHOP		5. PROJECT NUMBER VGLZ889623

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 MAY 19
(b) Percent Complete as of Jan 90	75%
(c) Date 35% Designed	89 SEP 01
(d) Date Design Complete	90 SEP 01
(2) Basis:	
(a) Standard or Definitive Design -	
(b) Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	34
(b) All Other Design Costs	20
(c) Total	54
(d) Contract	54
(e) In-house	
(4) Construction Start	91 MAY

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT ANG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE JAN 1990

3. INSTALLATION AND LOCATION SELFRIDGE ANG BASE MICHIGAN	4. PROJECT TITLE ADD TO AND ALTER PRECISION MEASURING EQUIP LAB

5. PROGRAM ELEMENT 55294F	6. CATEGORY CODE 218-868	7. PROJECT NUMBER VGLZ001565	8. PROJECT COST($000) $600

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ADD TO AND ALTER PRECISION MEASURING LAB				330
ADD TO PMEL	SF	1,700	155	(264)
ALTER PMEL	SF	600	110	(66)
SUPPORTING FACILITIES				215
UTILITIES	LS			(185)
SITE IMPROVEMENTS	LS			(30)
SUBTOTAL				545
CONTINGENCY (5%)				27
TOTAL CONTRACT COST				572
SUPERVISION, INSPECTION AND OVERHEAD (5%)				29
TOTAL REQUEST				601
TOTAL REQUEST (ROUNDED)				600

10. Description of Proposed Construction: Concrete floor and foundations, masonry walls, built-up roof on steel frame.

11. REQUIREMENT: 2,300 SF ADEQUATE: 0 SUBSTANDARD: 600 SF

PROJECT: Construct addition to provide receiving/issue/storage area with adequate dock space, minor alteration of adjoining space (New Mission).

REQUIREMENT: PMEL laboratory provides repair and calibration support of Test Measurement Diagnostic Equipment for Selfridge ANG Base and a specified geographic area. This project supports the conversion of A-7 to F-16 aircraft at various ANG locations and its associated PMEL workload.

CURRENT SITUATION: Existing lab is considered sub-standard due to lack of loading, unloading and storage space necessary to its efficient operation. Equipment receiving and dispatched via the Log Air System cannot be expeditiously handled, nor can the Mobil Units be adequately serviced.

IMPACT IF NOT PROVIDED: Mission will continue to be hampered by lack of required space for issue, receipt, and storage. Valuable time will be wasted in loading/unloading operations.

ADDITIONAL: FY-91 related projects: VGLZ889623, Add to and Alter Avionics Shop; VGLZ889621, Add to Munitions Maintenance and Storage.

1. COMPONENT ANG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE JAN 1990
3. INSTALLATION AND LOCATION SELFRIDGE ANG BASE MICHIGAN		
4. PROJECT TITLE ADD TO AND ALTER PRECISION MEASURING EQUIP LAB		5. PROJECT NUMBER VGLZ001565

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 MAY 01
(b) Percent Complete as of Jan 90	95%
(c) Date 35% Designed	88 AUG 19
(d) Date Design Complete	90 MAR 01
(2) Basis:	
(a) Standard or Definitive Design -	
(b) Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	17
(b) All Other Design Costs	11
(c) Total	28
(d) Contract	28
(e) In-house	
(4) Construction Start	91 MAR

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT ANG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE JAN 1990

3. INSTALLATION AND LOCATION SELFRIDGE ANG BASE MICHIGAN	4. PROJECT TITLE ADD TO MUNITIONS MAINTENANCE AND STORAGE

5. PROGRAM ELEMENT 55294F	6. CATEGORY CODE 422-256	7. PROJECT NUMBER VGLZ889621	8. PROJECT COST($000) $640

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ADD TO MUNITIONS MAINTENANCE AND STORAGE	SF	8,800	53	466
SUPPORTING FACILITIES				115
UTILITIES	LS			(45)
PAVEMENTS	LS			(30)
SITE IMPROVEMENTS	LS			(40)
SUBTOTAL				581
CONTINGENCY (5%)				29
TOTAL CONTRACT COST				610
SUPERVISION, INSPECTION AND OVERHEAD (5%)				31
TOTAL REQUEST				641
TOTAL REQUEST (ROUNDED)				640

10. Description of Proposed Construction: Concrete floor, Structural frame and exterior covering to match existing.

11. REQUIREMENT: 15,520 SF ADEQUATE: 6,720 SF SUBSTANDARD: 0

PROJECT: Add to Munitions Maintenance and Storage (New Mission).

REQUIREMENT: This project supports the conversion of the A-7 to F-16 aircraft. Munitions maintenance facility to support 20mm, trailer maintenance and missile maintenance.

CURRENT SITUATION: Munitions function space deficiencies are far below that required for the new mission aircraft. Existing space is not adequate to support conversion to a new mission aircraft. The project will rearrange functions for better facility utilization and provide the additional necessary space.

IMPACT IF NOT PROVIDED: Significant negative impact on training and operations of munitions personnel in support of the proposed aircraft will be felt.

ADDITIONAL: FY 91 related project: VGLZ889623, Add to and Alter Avionics Shop; VGLZ001565, Add to and Alter Precision Measuring Equip Lab.

1. COMPONENT ANG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE JAN 1990

3. INSTALLATION AND LOCATION

SELFRIDGE ANG BASE MICHIGAN

4. PROJECT TITLE ADD TO MUNITIONS MAINTENANCE AND STORAGE	5. PROJECT NUMBER VGLZ889621

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 MAY 19
(b) Percent Complete as of Jan 90	75%
(c) Date 35% Designed	89 SEP 01
(d) Date Design Complete	90 SEP 01
(2) Basis:	
(a) Standard or Definitive Design -	
(b) Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	30
(b) All Other Design Costs	18
(c) Total	48
(d) Contract	48
(e) In-house	
(4) Construction Start	91 JUN

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT ANG	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE JAN 90
3. INSTALLATION AND LOCATION GULFPORT MPT PERMANENT TRAINING BASE, MISSISSIPPI		4. AREA CONSTR COST INDEX 0.85

5. FREQUENCY AND TYPE OF UTILIZATION
One week per month for three tenant units, annual training for numerous visiting units averaging over 300 days per year.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
5 Army National Guard Armories, 1 Air Force Base and 1 Naval Construction Battalion Center.

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
214-425	ADD TO AND ALTER AGE/VEHICLE MAINTENANCE FACILITY	16,400 SF	1,150	AUG 88	MAR 90
442-758	ALTER BASE SUPPLY WAREHOUSES	6,800 SF	250	AUG 88	JAN 90

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved — 9 MAR 89 (Date)

9. LAND ACQUISITION REQUIRED None (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)
219-944	ADD TO AND ALTER BASE ENGINEER MAINTENANCE FACILITY	3,100 SF	490
171-447	COMM ELECTRONICS TRAINING FACILITY	21,300 SF	2,300

DD FORM 1390s, 1 DEC 76 Previous editions may be used. Page No b-57
Page 1 of 2

1. COMPONENT ANG	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE JAN 90

3. INSTALLATION AND LOCATION
GULFPORT MPT PERMANENT TRAINING BASE, MISSISSIPPI

11. PERSONNEL STRENGTH AS OF 31 MAY 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZED	157	9	94	54	504	45	459
ACTUAL	154	9	93	52	407	32	375

12. RESERVE UNIT DATA

	STRENGTH	
UNIT DESIGNATION	AUTHORIZED	ACTUAL
172 CLI CI	8	10
172 MSQ SQ	56	55
173 CEG SQ	151	129
255 TCT SQ	289	213
TOTALS	504	407

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ASSIGNED
Vehicle Equivalents: Trng Site	369	349
Vehicle Equivalents: 255th TCS	386	347
Support Equipment	0	0
Vehicle Equivalents	0	0

1. COMPONENT ANG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE JAN 1990

3. INSTALLATION AND LOCATION GULFPORT MPT PERMANENT TRAIN'G BASE MISSISSIPPI	4. PROJECT TITLE ADD TO AND ALTER AGE/VEHICLE MAINTENANCE FACILITY

5. PROGRAM ELEMENT 55294F	6. CATEGORY CODE 214-425	7. PROJECT NUMBER JTVE889707	8. PROJECT COST($000) $1,150

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ADD TO AND ALTER AGE/VEHICLE MAINTENANCE FACILITY				983
ADD VEHICLE MAINTENANCE SHOP	SF	10,900	75	(818)
ALTER VEHICLE AND AGE SHOP	SF	5,500	30	(165)
SUPPORTING FACILITIES				45
UTILITIES	LS			(15)
PAVEMENTS	LS			(25)
SITE IMPROVEMENTS	LS			(5)
SUBTOTAL				1,028
CONTINGENCY (5%)				51
TOTAL CONTRACT COST				1,079
SUPERVISION, INSPECTION AND OVERHEAD (5%)				54
TOTAL REQUEST				1,133
TOTAL REQUEST (ROUNDED)				1,150

10. Description of Proposed Construction: Concrete foundation and floor slab, masonry walls, steel framing, built-up roof to match existing and asphalt parking area, replacement of wiring, piping, and mechanical systems in existing facility.
Air Conditioning: 10 Tons.

11. REQUIREMENT: 16,400 SF ADEQUATE: 0 SUBSTANDARD: 5,500 SF
PROJECT: Add to and Alter AGE and Vehicle Maintenance Fac (New Mission).
REQUIREMENT: This is a Congressionally directed project. A vehicle maintenance shop of adequate size and configuration is essential to the functioning of the Tactical Control Squadron. Maintenance of the unit's vehicles as well as the training of their personnel must be provided if combat readiness is to be achieved and sustained.
CURRENT SITUATION: The present facility is much too small. Vehicle equivalents have increased significantly with the conversion of the 255 TCS. Pieces of AGE equipment have also increased significantly resulting in many pieces being being stored and maintained outside due to lack of maintenance bays. The backlog of vehicle and age equipment requiring maintenance has increased substantially.
IMPACT IF NOT PROVIDED: Vehicle maintenance activities and personnel training will continue to be conducted under adverse conditions resulting in substandard maintenance work and training.

1. COMPONENT ANG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE JAN 1990
3. INSTALLATION AND LOCATION GULFPORT MPT PERMANENT TRAIN'G BASE MISSISSIPPI		
4. PROJECT TITLE ADD TO AND ALTER AGE/VEHICLE MAINTENANCE FACILITY		5. PROJECT NUMBER JTVE889707

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 AUG 10
(b) Percent Complete as of Jan 90	75%
(c) Date 35% Designed	89 FEB 13
(d) Date Design Complete	90 MAR 01
(2) Basis:	
(a) Standard or Definitive Design -	
(b) Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	52
(b) All Other Design Costs	18
(c) Total	70
(d) Contract	70
(e) In-house	
(4) Construction Start	91 MAY

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT ANG	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE JAN 90
3. INSTALLATION AND LOCATION MCGUIRE AIR FORCE BASE, NEW JERSEY		4. AREA CONSTR COST INDEX 1.10

5. FREQUENCY AND TYPE OF UTILIZATION
Four unit training assemblies per month, 15 days annual field training per year, daily training by technician/AGR force and for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
2 Army National Guard Armories, 1 Naval Facility and 1 Active Army Fort.

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
211-152	ALTER AIRCRAFT MAINTENANCE SHOP	7,500 SF	520	MAR 87	MAR 90

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved — 1 JUL 88
(Date)

9. LAND ACQUISITION REQUIRED None
(Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)
171-875	ADD TO AND ALTER MUNITIONS LOADING CREW TNG FAC	2,100 SF	250
171-445	ADD TO AND ALTER OPS AND TRAINING FACILITY	20,000 SF	1,500
211-154	AIRCRAFT ORGANIZATIONAL MAINTENANCE FACILITY	4,000 SF	490
171-445	COMPOSITE OPS AND TRAINING FACILITY	32,900 SF	3,500
211-159	FUEL CELL /CORROSION CONTROL DOCK	17,000 SF	3,300
171-443	MEDICAL TRAINING FACILITY	14,000 SF	1,550
121-111	PETROLEUM OPERATIONS FACILITY	1,500 SF	500

1. COMPONENT ANG	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE JAN 90

3. INSTALLATION AND LOCATION
MCGUIRE AIR FORCE BASE, NEW JERSEY

11. PERSONNEL STRENGTH AS OF 31 MAY 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZED	610	40	544	26	2,144	281	1,863
ACTUAL	479	40	413	26	1,956	264	1,692

12. RESERVE UNIT DATA

	STRENGTH	
UNIT DESIGNATION	AUTHORIZED	ACTUAL
HQ NJ ANG	35	33
108 CEG SQ	100	85
108 CLM SQ	470	437
108 CMN FT	22	23
108 MSQ FT	25	26
108 MSQ SQ	76	79
108 RMS SQ	122	116
108 TCI CI	71	64
108 TFW GP	11	10
108 TFG HQ	58	56
108 SEP FT	57	55
119 WEA FT	13	8
141 TFG SQ	72	70
150 ARH SQ	65	65
170 ARH GP	81	79
170 CEG FT	122	101
170 CLI CI	50	49
170 CLM SQ	320	284
170 MSQ SQ	170	135
170 RMS SQ	121	116
170 SEP FT	62	51
204 WEA FT	21	14
TOTALS	2,144	1,956

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ASSIGNED
KC-135 Aircraft	8	8
F-4E Aircraft	18	19
Support Equipment	265	265
Vehicle Equivalents	280	287

1. COMPONENT ANG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE JAN 1990

3. INSTALLATION AND LOCATION MCGUIRE AIR FORCE BASE NEW JERSEY	4. PROJECT TITLE ALTER AIRCRAFT MAINTENANCE SHOP

5. PROGRAM ELEMENT 55294F	6. CATEGORY CODE 211-152	7. PROJECT NUMBER PTFL000984	8. PROJECT COST($000) $520

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ALTER AIRCRAFT MAINTENANCE SHOP	SF	7,500	60	450
SUPPORTING FACILITIES				20
UTILITIES	LS			(20)
SUBTOTAL				470
CONTINGENCY (5%)				24
TOTAL CONTRACT COST				494
SUPERVISION, INSPECTION AND OVERHEAD (5%)				25
TOTAL REQUEST				519
TOTAL REQUEST (ROUNDED)				520

10. Description of Proposed Construction: Alteration of existing space with concrete block walls, to provide NDI lab with x-ray, ultrasonics, spectrometric lab, and penetrant and magnetic particle room.
Air Conditioning: 10 Tons.

11. REQUIREMENT: 7,500 SF ADEQUATE: 0 SUBSTANDARD: 7,500 SF

PROJECT: Alter Aircraft Maintenance Shop (New Mission).

REQUIREMENT: Area is required to comply with environmental criteria for shielding to x-raying being done by NDI shop. Space is required to examine critical aircraft components such as stabilizers and landing gear. Provide functional areas for repair and reclamation, tire and wheel shop, bearing room, stripper/blasting room and maintenance debriefing room.

CURRENT SITUATION: Existing shop space is inadequate to provide in shop capability to x-ray and evaluate aircraft components. Current shop practice requires use of aircraft shelter or work being done in the open areas on base. Capability is limited during winter season and inclement weather. Avionics is moving out of the building due to conversion, freeing up space for aircraft Non-Destructive Inspection, Repair and Reclamation, and maintenance debrief.

IMPACT IF NOT PROVIDED: Adequate maintenance can not be provided due to lack of NDI facilities and inadequate space for other maintenance shops. This will result in loss of availability of air frames and degrade the units mission effectiveness.

1. COMPONENT ANG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE JAN 1990
3. INSTALLATION AND LOCATION MCGUIRE AIR FORCE BASE NEW JERSEY		
4. PROJECT TITLE ALTER AIRCRAFT MAINTENANCE SHOP		5. PROJECT NUMBER PTFL000984

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	87 MAR 13
(b) Percent Complete as of Jan 90	75%
(c) Date 35% Designed	88 JUL 26
(d) Date Design Complete	90 MAR 15
(2) Basis:	
(a) Standard or Definitive Design -	
(b) Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	18
(b) All Other Design Costs	11
(c) Total	29
(d) Contract	29
(e) In-house	
(4) Construction Start	91 JUL

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT ANG	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE JAN 90
3. INSTALLATION AND LOCATION NIAGARA FALLS INTERNATIONAL AIRPORT, NEW YORK		4. AREA CONSTR COST INDEX 1.14

5. FREQUENCY AND TYPE OF UTILIZATION
Four unit training assemblies per month, 15 days annual field training per year, daily use by technician/AGR force and for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
1 Air Force Reserve and 1 Army National Guard Facility.

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
422-264	MUNITION MAINT AND STORAGE COMPLEX (JOINT ANG/AFRES)	26,100 SF	4,500	JUL 87	MAR 90

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved — 5 APR 88 (Date)

9. LAND ACQUISITION REQUIRED None (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)
171-445	COMPOSITE SUPPORT FACILITY	38,000 SF	4,150
179-475	SMALL ARMS TRAINING FACILITY	21 FP	300

DD FORM 1390s, 1 DEC 76 Previous editions may be used. Page No b-65
Page 1 of 2

1. COMPONENT ANG	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE JAN 90

3. INSTALLATION AND LOCATION
NIAGARA FALLS INTERNATIONAL AIRPORT, NEW YORK

11. PERSONNEL STRENGTH AS OF 31 MAY 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZED	390	25	362	3	1,080	133	947
ACTUAL	372	24	345	3	988	120	868

12. RESERVE UNIT DATA

		STRENGTH	
UNIT DESIGNATION		AUTHORIZED	ACTUAL
107 CEG SQ		136	102
107 CLI CI		41	34
107 CLM SQ		435	396
107 FIG HQ		61	56
107 MSQ FT		37	37
107 MSQ SQ		49	45
107 RMS SQ		121	117
107 SEP FT		86	87
107 SVS FT		25	20
107 FIG/OL		20	20
136 FIN SQ		69	61
8107 STU FT		0	13
	TOTALS	1,080	988

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ASSIGNED
F-4D Aircraft	18	24
F-16 Aircraft	18	0
Support Equipment	140	140
Vehicle Equivalents	200	200

INTENTIONAL
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1. COMPONENT ANG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE JAN 1990

3. INSTALLATION AND LOCATION NIAGARA FALLS INTERNATIONAL AIRPORT NEW YORK	4. PROJECT TITLE MUNITION MAINT AND STORAGE COMPLEX (JOINT ANG/AFRES)

5. PROGRAM ELEMENT 55294F	6. CATEGORY CODE 422-264	7. PROJECT NUMBER RVKO001505	8. PROJECT COST($000) ANG AFRES $4,300 $200

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
MUNITION MAINT AND STORAGE COMPLEX (JOINT ANG/AFRES)	LS			3,122
STORAGE IGLOO	SF	13,600	145	(1,972)
MUNITIONS MAINTENANCE SHOP	SF	7,500	110	(825)
COVERED AND INERT STORAGE	SF	5,000	65	(325)
SUPPORTING FACILITIES				945
UTILITIES	LS			(360)
PAVEMENTS	LS			(325)
SITE IMPROVEMENTS	LS			(220)
COMMUNICATION/SECURITY	LS			(40)
SUBTOTAL				4,067
CONTINGENCY (5%)				203
TOTAL CONTRACT COST				4,270
SUPERVISION, INSPECTION AND OVERHEAD (5%)				214
TOTAL REQUEST				4,484
TOTAL REQUEST (ROUNDED)				4,500

10. Description of Proposed Construction: Three 3,200 SF igloos, four 600 SF igloos, four 400 SF igloos, a amaintenance facility with reinforced concrete walls and floor, an admin section with concrete walls, floor & built-up roof, and a prefabricated metal covered trailer storage area. Demolish 14 buildings 4,330 SF.

11. REQUIREMENT: 26,100 SF ADEQUATE: 0 SUBSTANDARD: 4,330 SF
PROJECT: Munition Maintenance and Storage complex (New Mission).
REQUIREMENT: This project supports the conversion of F-4 to F-16 aircraft. A new munitions maintenance and storage complex is required to support aircraft/weapons system conversion. Functional areas include live missile & munitions storage, maintenance & paint bays, power room, offices, classroom, trailer maintenance, 20 mm processing and inspection, and covered storage for containers, trailers, and training equipment.
CURRENT SITUATION: The existing munitions maintenance and storage facilities are inadequate to support programmed F-16 weapons system. The required munitions trailer maintenance, ammunition loading system, paint bay, munitions support equipment, inert/training items and missile/ammunitions facilities do not exist. The facility for maintenance of missiles in all-up-round containers, cannot perform its function due to physical space limitations and explosive Quantity-Distance restrictions. Operations are presently conducted at two separate locations; the storage areas are approximately 3/4 of a mile from the maintenance areas. Existing munitions storage igloos are badly deteriorated.
IMPACT IF NOT PROVIDED: The unit would not be able to fully support the new F-16 weapon systems conversion and the CONUS air defense missions.
ADDITIONAL: This is a joint project with AFRES.

1. COMPONENT ANG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE JAN 1990

3. INSTALLATION AND LOCATION

NIAGARA FALLS INTERNATIONAL AIRPORT NEW YORK

4. PROJECT TITLE MUNITION MAINT AND STORAGE COMPLEX (JOINT ANG/AFRES)	5. PROJECT NUMBER RVKO001505

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	87 JUL 02
(b) Percent Complete as of Jan 90	75%
(c) Date 35% Designed	88 AUG 04
(d) Date Design Complete	90 MAR 29
(2) Basis:	
(a) Standard or Definitive Design -	
(b) Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	166
(b) All Other Design Costs	54
(c) Total	220
(d) Contract	220
(e) In-house	
(4) Construction Start	91 JUN

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT ANG	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE JAN 90
3. INSTALLATION AND LOCATION SUFFOLK COUNTY AIRPORT ANG, NEW YORK		4. AREA CONSTR COST INDEX 1.27

5. FREQUENCY AND TYPE OF UTILIZATION
Four unit training assemblies per month, 15 days annual field training per year, daily use by technician/AGR force and for training

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
2 Army National Guard Units, 2 Army Reserve Units, 1 Naval Reserve Unit and one U S Military Acadamy

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
880-232	FIRE DETECTION/SUPPRESSION SYSTEM	LS	1,450	JUL 85	OCT 87

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved — 2 MAR 88 (Date)

9. LAND ACQUISITION REQUIRED None ______ (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

CATEGORY CODE	PROJECT TITLE	SCOPE	✓ ~~COST~~ ($000)
211-157	AIRCRAFT ENGINE SHOP	10,400 SF	1,400
141-111	COMMUNICATIONS FACILITY	11,200 SF	1,700
124-135	JET FUEL STORAGE COMPLEX	LS	3,000
124-135	REPLACE UNDERGROUND FUEL STORAGE TANKS	65 EA	1,500

1. COMPONENT ANG	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE JAN 90

3. INSTALLATION AND LOCATION
SUFFOLK COUNTY AIRPORT ANG, NEW YORK

11. PERSONNEL STRENGTH AS OF 31 MAY 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZED	216	7	37	172	763	108	655
ACTUAL	203	6	37	160	782	105	677

12. RESERVE UNIT DATA

	STRENGTH	
UNIT DESIGNATION	AUTHORIZED	ACTUAL
102 AER SQ	106	111
106 AER GP	57	54
106 CEG SQ	125	123
106 CLM SQ	175	175
106 MSQ FT	37	37
106 MSQ SQ	68	79
106 RMS SQ	116	107
106 TCI CI	33	33
201 WEA FT	21	18
8106 STU FT	0	18
106 SVS FT	25	27
TOTALS	763	782

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ASSIGNED
HC-130 Aircraft	4	4
HH-3E	5	5
MH-60G	5	0
Support Equipment	149	139
Vehicle Equivalents	248	248

1. COMPONENT ANG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE JAN 1990

3. INSTALLATION AND LOCATION SUFFOLK COUNTY AIRPORT ANG NEW YORK	4. PROJECT TITLE FIRE DETECTION/SUPPRESSION SYSTEM

5. PROGRAM ELEMENT 55294F	6. CATEGORY CODE 880-232	7. PROJECT NUMBER WKVB000471	8. PROJECT COST($000) $1,450

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
FIRE DETECTION/SUPPRESSION SYSTEM	LS			960
SUPPORTING FACILITIES				350
UTILITIES	LS			(350)
SUBTOTAL				1,310
CONTINGENCY (5%)				66
TOTAL CONTRACT COST				1,376
SUPERVISION, INSPECTION AND OVERHEAD (5%)				69
TOTAL REQUEST				1,445
TOTAL REQUEST (ROUNDED)				1,450

10. Description of Proposed Construction: Install fire system pump house with fire pump, appurtenances and underground mains. Connection from base water system to county water mains. Conversion of 2 underground fuel tanks to emergency fire water supply. Foam fire suppression systems in 3 aircraft hangars. Base wide fire alarm system with a central console in the fire station; automatic sprinklers in 4 buildings.

11. REQUIREMENT: 1 EA ADEQUATE: 0 SUBSTANDARD: 0

PROJECT: Install fire detection and suppression systems. (Current Mission).

REQUIREMENT: To increase the capabilities of fire suppression and detection in the aircraft maintenance/support facilities and base administrative support areas. Provide a base-wide reporting system.

CURRENT SITUATION: Flow tests indicate substantial deterioration of water pressure during heavy use. Existing automatic fire detection equipment on the base is inoperative, unreliable and do not meet standards. Only two buildings have partial local alarm systems, the fire station and the hangar system which is subject to frequent false alarms. The base currently has no central base-wide fire reporting system. All alarms are received at the full time staffed base fire station by telephone. This project will provide fire protection to base assets worth in excess of $88 mil.

IMPACT IF NOT PROVIDED: Inadequate fire suppression/detection coverage, causing potential loss of life and destruction of valuable assets.

1. COMPONENT ANG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE JAN 1990
3. INSTALLATION AND LOCATION SUFFOLK COUNTY AIRPORT ANG NEW YORK		
4. PROJECT TITLE FIRE DETECTION/SUPPRESSION SYSTEM		5. PROJECT NUMBER WKVB000471

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	85 JUL 03
(b) Percent Complete as of Jan 90	100%
(c) Date 35% Designed	87 JAN 09
(d) Date Design Complete	87 OCT 12
(2) Basis:	
(a) Standard or Definitive Design -	
(b) Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	40
(b) All Other Design Costs	34
(c) Total	74
(d) Contract	74
(e) In-house	
(4) Construction Start	91 JUL

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT ANG	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE JAN 90
3. INSTALLATION AND LOCATION HECTOR FIELD AIR NATIONAL GUARD, NORTH DAKOTA		4. AREA CONSTR COST INDEX 1.04

5. FREQUENCY AND TYPE OF UTILIZATION
Eight unit training assemblies per month, 15 days annual field training per year, daily use by technician/AGR force and for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
2 Army National Guard Armories, 1 Army Reserve Facility, 1 Army National Guard Organizational Maintenance Shop and 1 Naval Reserve Facility.

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
211-152	ALTER MAINTENANCE HANGAR	41,700 SF	1,400	DEC 87	MAR 89
216-642	MUNITIONS MAINTENANCE AND STORAGE COMPLEX	14,500 SF	2,600	DEC 87	FEB 90

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved 23 FEB 88
(Date)

9. LAND ACQUISITION REQUIRED None
(Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)
124-135	JET FUEL STORAGE	LS	2,850
411-135	REPLACE UNDERGROUND FUEL STORAGE TANKS	17 EA	1,000
214-425	VEHICLE MAINTENANCE COMPLEX	19,700 SF	2,000

1. COMPONENT ANG	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE JAN 90

3. INSTALLATION AND LOCATION
HECTOR FIELD AIR NATIONAL GUARD, NORTH DAKOTA

11. PERSONNEL STRENGTH AS OF 31 MAY 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZED	351	7	55	289	1,247	146	1,101
ACTUAL	329	6	56	267	1,187	120	1,067

12. RESERVE UNIT DATA

	STRENGTH	
UNIT DESIGNATION	AUTHORIZED	ACTUAL
119 CEG SQ	248	221
119 CLI CI	40	44
119 CLM SQ	428	401
119 FIN GP	77	73
119 MSQ FT	37	40
119 MSQ SQ	50	46
119 RMS SQ	121	127
119 SEP FT	85	78
119 SVS FT	61	45
178 FIN SQ	69	59
8119 STU FT	31	53
TOTALS	1,247	1,187

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ASSIGNED
F-4D Aircraft	18	18
F-16 Aircraft	18	0
C-130 Aircraft	1	1
Support Equipment	384	371
Vehicle Equivalents	293	335

1. COMPONENT ANG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE JAN 1990

3. INSTALLATION AND LOCATION HECTOR FIELD AIR NATIONAL GUARD NORTH DAKOTA	4. PROJECT TITLE ALTER MAINTENANCE HANGAR

5. PROGRAM ELEMENT 55294F	6. CATEGORY CODE 211-152	7. PROJECT NUMBER KKGA001550	8. PROJECT COST($000) $1,400

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ALTER MAINTENANCE HANGAR	SF	41,700	22	917
SUPPORTING FACILITIES				344
UTILIIES	LS			(28)
ASBESTOS REMOVAL	LS			(39)
FIRE SUPPRESSION SYSTEM	LS			(277)
SUBTOTAL				1,261
CONTINGENCY (5%)				63
TOTAL CONTRACT COST				1,324
SUPERVISION, INSPECTION AND OVERHEAD (5%)				66
TOTAL REQUEST				1,390
TOTAL REQUEST (ROUNDED)				1,400

10. Description of Proposed Construction: Existing aircraft maintenance shops to be reconfigured internally by installing or removing wall partitions and upgrading utilities.
Air Conditioning: 115 Tons.

11. REQUIREMENT: 41,700 SF ADEQUATE: 0 SUBSTANDARD: 41,700 SF
PROJECT: Alter Maintenence Hangar (New Mission).
REQUIREMENT: Hangar Bldg 217 must be modified to accomodate changes in maintenance support. Functions impacted, include general purpose shops, Non-Destructive Inspection, organizational maintenance, weapons release, and weapons system maintenance. Existing shortages will be eliminated and increased requirements will be satisfied by displacing functions in Bldg 217 that are non-related to aircraft maintenance to other facilities. The non-related functions are being placed into a new facility in a separate program. This project supports the conversion of F-4 aircraft to F-16 aircraft.
CURRENT SITUATION: Maintenance space for the F-16 aircraft is critically short. There are deficiencies in space for composite repair, egress functional layout, environmental controls, and power distribution. Non-related functions occupy urgently needed maintenance and administrative space.
IMPACT IF NOT PROVIDED: Degraded in its ability to perform maintenance and training. This will seriously impact on the unit's capability to respond to CONUS air denfense mission tasking.
ADDITIONAL: FY 91 related project: KKGA001551, Munitions Maintenance and Storage Complex.

1. COMPONENT ANG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE JAN 1990

3. INSTALLATION AND LOCATION

HECTOR FIELD AIR NATIONAL GUARD NORTH DAKOTA

4. PROJECT TITLE ALTER MAINTENANCE HANGAR	5. PROJECT NUMBER KKGA001550

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	87 DEC 29
(b) Percent Complete as of Jan 90	100%
(c) Date 35% Designed	88 JUN 22
(d) Date Design Complete	89 MAR 03
(2) Basis:	
(a) Standard or Definitive Design -	
(b) Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	47
(b) All Other Design Costs	25
(c) Total	72
(d) Contract	72
(e) In-house	
(4) Construction Start	91 MAY

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT ANG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE JAN 1990

3. INSTALLATION AND LOCATION HECTOR FIELD AIR NATIONAL GUARD NORTH DAKOTA	4. PROJECT TITLE MUNITIONS MAINTENANCE AND STORAGE COMPLEX

5. PROGRAM ELEMENT 55294F	6. CATEGORY CODE 216-642	7. PROJECT NUMBER KKGA001551	8. PROJECT COST($000) $2,600

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
MUNITION MAINTENANCE AND STORAGE COMPLEX	LS			1,594
MAINTENANCE SHOP	SF	4,100	140	(574)
COVERED INERT STORAGE	SF	4,000	55	(220)
MISSILE MAINTENANCE	SF	3,200	110	(352)
MISSILE STORAGE IGLOO	SF	3,200	140	(448)
SUPPORTING FACILITIES				775
UTILITIES	LS			(100)
PAVEMENTS	LS			(225)
SITE WORK	LS			(100)
ACCESS ROAD	LS			(350)
SUBTOTAL				2,369
CONTINGENCY (5%)				118
TOTAL CONTRACT COST				2,487
SUPERVISION, INSPECTION AND OVERHEAD (5%)				124
TOTAL REQUEST				2,611
TOTAL REQUEST (ROUNDED)				2,600

10. Description of Proposed Construction: Earth covered, steel arch and reinforced concrete maintenance and munitions storage igloos. Other buildings to be reinforced concrete, or cement block with masonry exterior. Extension of roads and utilities.
Air Conditioning: 20 Tons.

11. REQUIREMENT: 21,900 SF ADEQUATE: 7,400 SF SUBSTANDARD: 0
PROJECT: Munition Maintenance and Storage Complex (New Mission).
REQUIREMENT: Storing and maintaining aircraft munitions require isolation of maintenance functions for dissimilar missile systems. Storage is also needed for containers/trailers. Site must meet explosive safety separation criteria. This project supports the conversion of F-4 aircraft to the F-16 aircraft.
CURRENT SITUATION: Present munitions facility will permit only one type of missile maintenance at a time. New safety ruling will not allow corrective facility addition/alteration. The site as configured is in violation of explosive safety standards. Existing maintenance bay has inadequate equipment, power distribution, and environmental control. Storage magazines are deficient in size and accessability, requiring multiple loading, unloading, and manual maneuvering of carts and trailers. By changing the functional use the existing facilities will be used.
IMPACT IF NOT PROVIDED: Performance of essential functions in existing facilities will expose personnel to safety deficiencies and reduce training effectiveness.
ADDITIONAL: FY 91 related project: KKGA001550, Alter Maintenance Hangar.

1. COMPONENT ANG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE JAN 1990
3. INSTALLATION AND LOCATION HECTOR FIELD AIR NATIONAL GUARD NORTH DAKOTA		
4. PROJECT TITLE MUNITIONS MAINTENANCE AND STORAGE COMPLEX		5. PROJECT NUMBER KKGA001551

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	87 DEC 29
(b) Percent Complete as of Jan 90	95%
(c) Date 35% Designed	88 AUG 31
(d) Date Design Complete	90 FEB 13
(2) Basis:	
(a) Standard or Definitive Design -	
(b) Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	92
(b) All Other Design Costs	49
(c) Total	141
(d) Contract	141
(e) In-house	
(4) Construction Start	91 MAY

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT ANG	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE JAN 90
3. INSTALLATION AND LOCATION RICKENBAKER AIR NAT'L GUARD BASE, OHIO		4. AREA CONSTR COST INDEX 0.97

5. FREQUENCY AND TYPE OF UTILIZATION
Eight unit training assemblies per month, 15 days annual field training per year, daily use by technician/AGR force and for training

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
HQ Army Reserve, ONG Armory, Port Columbus USAR Center, Marine Corps Center, Ft Hayes USARC, Naval Reserve Center, RANGB, Naval Intell Center.

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
211-179	ALTER FUEL SYSTEMS MAINTENANCE DOCK (JOINT ANG/AFRES)	28,900 SF	900	OCT 88	JUL 90
116-665	POWER CHECK PAD W/SOUND SUPPRESSOR	LS	700	AUG 85	DEC 87

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved — 7 JUN 88 (Date)

9. LAND ACQUISITION REQUIRED None (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)
211-153	ALTER NONDESTRUCTIVE INSPECTION SHOP	4,000 SF	400
124-135	REPLACE UNDERGROUND FUEL STORAGE TANKS	53 EA	3,000

1. COMPONENT ANG	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE JAN 90

3. INSTALLATION AND LOCATION
RICKENBAKER AIR NAT'L GUARD BASE, OHIO

11. PERSONNEL STRENGTH AS OF 31 MAY 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZED	857	100	420	337	1,866	222	1,644
ACTUAL	839	93	418	328	1,812	218	1,594

12. RESERVE UNIT DATA

	STRENGTH	
UNIT DESIGNATION	AUTHORIZED	ACTUAL
121 CAM SQ	458	422
121 MSQ FT	26	27
121 MSQ SQ	76	73
121 RMS SQ	122	119
121 TFG WG	62	57
121 THP HP	49	43
121 SEP FT	57	57
145 ARH SQ	61	65
160 ARH GP	71	69
160 CEG SQ	143	143
160 CLI CI	50	44
160 CLM SQ	318	276
160 MSQ FT	37	32
160 MSQ SQ	71	72
160 RMS SQ	121	121
160 SEP FT	75	76
164 WEA FT	13	10
166 TFG SQ	56	60
8121 STU FT	0	26
8160 STU FT	0	20
TOTALS	1,866	1,812

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ASSIGNED
A-7D/K Aircraft	24	24
KC-135 Aircraft	10	7
C-131E Aircraft	1	1
Support Equipment	146	119
Vehicle Equivalents	583	843

1. COMPONENT ANG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE JAN 1990

3. INSTALLATION AND LOCATION RICKENBACKER AIR NAT'L GUARD BASE OHIO	4. PROJECT TITLE ALTER FUEL SYSTEMS MAINTENANCE DOCK (JOINT ANG/AFRES)

5. PROGRAM ELEMENT 55294F	6. CATEGORY CODE 211-179	7. PROJECT NUMBER NLZG001566	8. PROJECT COST($000) ANG $400 AFRES $500

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ALTER FUEL MAINTENANCE DOCK (W/AFRES)	LS			664
FIRE SUPPRESSION SYSTEM	SF	28,900	15	(434)
VAPOR RECOVERY SYSTEM	LS			(110)
DOOR MODIFICATION	LS			(120)
SUPPORTING FACILITIES				155
UTILITIES	LS			(55)
SITEWORK	LS			(100)
SUBTOTAL				819
CONTINGENCY (5%)				41
TOTAL CONTRACT COST				860
SUPERVISION, INSPECTION AND OVERHEAD (5%)				43
TOTAL REQUEST				903
TOTAL REQUEST (ROUNDED)				900

10. Description of Proposed Construction: Alteration of Bldg 594 to provide underwing fire suppression system, structural, mechanical and electrical modifications, so that facility meets criteria for a fuel systems maint dock. This dock will support both ANG and AFRES large aircraft.

11. REQUIREMENT: 28,860 SF ADEQUATE: 0 SUBSTANDARD: 28,860 SF

PROJECT: Alter Fuel Systems Maintenance Dock (New Mission).

REQUIREMENT: Fuel systems maintenance dock with adequate fire protection to support maintenance of tanker and transport aircraft.

CURRENT SITUATION: Bldg 594 has no fire suppression system. Fuel cell repair work is being accomplished on large aircraft (tanker and transport) without necessary protection. A proposed conversion drives the need, in addition to the current requirement. The presence of highly flammable materials (jet fuel, lubricants, solvents) creates a high degree of risk.

IMPACT IF NOT PROVIDED: ANG and AFRES aircraft being maintained in this facility will be unprotected from fires, which could lead to a substantial loss of assets. Safety will be compromised for personnel working in this hazardous environment.

ADDITIONAL: ANG share is $400,000; AFRES share is $500,000.

1. COMPONENT ANG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE JAN 1990
3. INSTALLATION AND LOCATION RICKENBACKER AIR NAT'L GUARD BASE OHIO		
4. PROJECT TITLE ALTER FUEL SYSTEMS MAINTENANCE DOCK (JOINT ANG/AFRES)		5. PROJECT NUMBER NLZG001566

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 OCT 28
(b) Percent Complete as of Jan 90	75%
(c) Date 35% Designed	89 JUL 13
(d) Date Design Complete	90 JUL 16
(2) Basis:	
(a) Standard or Definitive Design -	
(b) Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	16
(b) All Other Design Costs	5
(c) Total	21
(d) Contract	21
(e) In-house	
(4) Construction Start	91 JUL

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT ANG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE JAN 1990

3. INSTALLATION AND LOCATION RICKENBACKER AIR NAT'L GUARD BASE OHIO	4. PROJECT TITLE POWER CHECK PAD W/SOUND SUPPRESSOR

5. PROGRAM ELEMENT 55294F	6. CATEGORY CODE 116-665	7. PROJECT NUMBER NLZG000252	8. PROJECT COST($000) $700

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
POWER CHECK PAD W/SOUND SUPPRESSOR	LS			550
SUPPORTING FACILITIES				85
UTILITIES	LS			(25)
PAVEMENTS	LS			(50)
SITE IMPROVEMENTS	LS			(10)
SUBTOTAL				635
CONTINGENCY (5%)				32
TOTAL CONTRACT COST				667
SUPERVISION, INSPECTION AND OVERHEAD (5%)				33
TOTAL REQUEST				700
TOTAL REQUEST (ROUNDED)				700
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(1,300)

10. Description of Proposed Construction: Construct a reinforced concrete foundation for suppressor system with concrete pad and asphaltic concrete access taxiway. Service road, waste water collection system, oil separator and all other utilities included.

11. REQUIREMENT: 1 LS ADEQUATE: 0 SUBSTANDARD: 1 LS

PROJECT: Power Check Pad with Sound Suppressor (New Mission).

REQUIREMENT: This project supports the arrival of new aircraft and equipment. Testing of aircraft engines requires long periods of engine thrust that create a noise hazard environment for nearby on and off base population. This facility provides a controlled test environment that minimizes the hazard and provides shelter from the climate.

CURRENT SITUATION: The existing power check pad area has one older suppressor for the existing aircraft, as well as an area for unsuppressed runs. The new aircaft is not compatible with the existing and unsuppressed runs are not feasible because of surrounding residential areas.

IMPACT IF NOT PROVIDED: Continued use of existing unsuppressed pads will endanger hearing of personel and limit testing of aircraft and engines to suitable climatic conditions.

1. COMPONENT ANG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE JAN 1990

3. INSTALLATION AND LOCATION

RICKENBACKER AIR NAT'L GUARD BASE OHIO

4. PROJECT TITLE POWER CHECK PAD W/SOUND SUPPRESSOR	5. PROJECT NUMBER NLZG000252

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	85 AUG 29
(b) Percent Complete as of Jan 90	95%
(c) Date 35% Designed	86 AUG 19
(d) Date Design Complete	87 DEC 15
(2) Basis:	
(a) Standard or Definitive Design -	
(b) Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	22
(b) All Other Design Costs	14
(c) Total	36
(d) Contract	36
(e) In-house	
(4) Construction Start	91 APR

b. Equipment associated with this project will be provided from other appropriations:

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)

1. COMPONENT ANG	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE JAN 90
3. INSTALLATION AND LOCATION WILLOW GROVE AIR RESERVE FACILITY, PENNSYLVANIA		4. AREA CONSTR COST INDEX 1.09

5. FREQUENCY AND TYPE OF UTILIZATION
Four unit training assemblies per month, 15 days annual field training per year, daily use by technician/AGR force and for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
12 Army National Guard, 8 Army Reserve, 4 Naval Reserve, 1 Marine Corps Reserve, 1 Air Force Reserve and 1 Active Duty Navy

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
171-450	MEDICAL TRAINING FACILITY (JOINT ANG/AFRES)	15,000 SF	2,500	SEP 87	SEP 90

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved
10 AUG 88
(Date)

9. LAND ACQUISITION REQUIRED None
(Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)
131-111	ADD TO COMMUNICATIONS FACILITY	9,500 SF	650
171-445	ALTER RESERVE FORCES OPS TNG	5,400 SF	400
214-467	VEHICLE REFUELING SHOP	1,500 SF	335

1. COMPONENT ANG	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE JAN 90

3. INSTALLATION AND LOCATION
WILLOW GROVE AIR RESERVE FACILITY, PENNSYLVANIA

11. PERSONNEL STRENGTH AS OF 31 MAY 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZED	258	20	238	0	1,165	115	1,050
ACTUAL	245	20	225	0	1,052	119	933

12. RESERVE UNIT DATA

	STRENGTH	
UNIT DESIGNATION	AUTHORIZED	ACTUAL
103 TAS SQ	62	61
111 CES SQ	124	95
111 CAM SQ	404	330
111 SVS FT	25	24
111 MSQ FT	37	39
111 MSQ SQ	51	50
111 RMS SQ	125	119
111 TCI CI	27	33
111 SEP FT	56	55
111 TAS GP	57	65
140 WEA FT	13	11
270 EIG SQ	184	170
TOTALS	1,165	1,052

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ASSIGNED
OA-10 Aircraft	18	16
C-26 Aircraft	1	0
Support Equipment	110	86
Vehicle Equivalents	193	163

1. COMPONENT ANG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE JAN 1990

3. INSTALLATION AND LOCATION WILLOW GROVE AIR RESERVE FACILITY PENNSYLVANIA	4. PROJECT TITLE MEDICAL TRAINING FACILITY (JOINT ANG/AFRES)

5. PROGRAM ELEMENT 55294F	6. CATEGORY CODE 171-450	7. PROJECT NUMBER ZAWA001486	8. PROJECT COST($000) ANG $1,250 AFRES $1,250

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
MEDICAL TRAINING FACILITY (JOINT				
RES FORCES MED TNG & ADMIN	SF	15,000	125	1,875
SUPPORTING FACILITIES				380
UTILITIES	LS			(165)
PAVEMENTS	LS			(95)
SITE IMPROVEMENTS	LS			(120)
SUBTOTAL				2,255
CONTINGENCY (5%)				113
TOTAL CONTRACT COST				2,368
SUPERVISION, INSPECTION AND OVERHEAD (5%)				118
TOTAL REQUEST				2,486
TOTAL REQUEST (ROUNDED)				2,500

10. Description of Proposed Construction: Reinforced concrete foundation and floor slab, concrete block with brick facia and concrete roof deck. All supporting utilities and pavements.
Air Conditioning: 35 Tons.

11. REQUIREMENT: 15,000 SF ADEQUATE: 0 SUBSTANDARD: 4,109 SF
PROJECT: Medical Training Facility (Current Mission).
REQUIREMENT: Space is required to train Air Force Reserve and ANG medical personnel, and provide non-therapeutic medical and dental support to all assigned ANG and AFRES personnel. The functional areas include classrooms, exam rooms, x-ray and laboratory rooms, records maintenance, storage area, and administrative space. Vacated space will be altered under a separate project for administrative functions.
CURRENT SITUATION: Recent increases in medical manpower assigned to these units have seriously overcrowded the existing facility. The facility is grossly undersized and inefficient, adversly affecting the quality and quantitiy of training provided. Existing floor space will be used to resolve other training space deficiencies.
IMPACT IF NOT PROVIDED: Unless an adequately sized and a properly configured facility is provided the medical training support and unit readiness will continue to suffer.
ADDITIONAL: Joint project with AFRES ZAWA 90-9001.

1. COMPONENT ANG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE JAN 1990

3. INSTALLATION AND LOCATION

WILLOW GROVE AIR RESERVE FACILITY PENNSYLVANIA

4. PROJECT TITLE MEDICAL TRAINING FACILITY (JOINT ANG/AFRES)	5. PROJECT NUMBER ZAWA001486

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	87 SEP 26
(b) Percent Complete as of Jan 90	65%
(c) Date 35% Designed	88 NOV 16
(d) Date Design Complete	90 SEP 04
(2) Basis:	
(a) Standard or Definitive Design -	
(b) Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	47
(b) All Other Design Costs	96
(c) Total	143
(d) Contract	143
(e) In-house	
(4) Construction Start	91 JUN

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT ANG	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE JAN 90
3. INSTALLATION AND LOCATION MCENTIRE AIR NATIONAL GUARD BASE, SOUTH CAROLINA		4. AREA CONSTR COST INDEX 0.85

5. FREQUENCY AND TYPE OF UTILIZATION
Four unit training assemblies per month, 15 days annual field training per year, daily use by technician/AGR force and for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
3 Army National Guard Armories, 3 Army Reserve, 1 Naval Reserve, 1 Air Force Base, 1 Army Base and 1 Marine Corps Reserve.

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
217-713	ECM MAINTENANCE AND STORAGE FACILITY	4,000 SF	550	MAR 87	MAR 90

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved 18 APR 89
(Date)

9. LAND ACQUISITION REQUIRED None
(Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)
131-111	ADD TO AND ALTER COMMUNICATIONS FACILITY	5,800 SF	600
842-245	CONNECT TO CITY WATER	LS	340
136-667	CONSTRUCT AIRFIELD LIGHTING	LS	1,500
124-135	JET FUEL STORAGE COMPLEX	LS	2,900
124-135	REPLACE UNDERGROUND FUEL STORAGE TANKS	58 EA	3,400

1. COMPONENT ANG	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE JAN 90

3. INSTALLATION AND LOCATION
MCENTIRE AIR NATIONAL GUARD BASE, SOUTH CAROLINA

11. PERSONNEL STRENGTH AS OF 23 MAY 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZED	387	28	293	66	1,409	136	1,273
ACTUAL	361	26	269	66	1,414	134	1,280

12. RESERVE UNIT DATA

UNIT DESIGNATION		STRENGTH	
		AUTHORIZED	ACTUAL
157 TFS SQ		58	60
169 CES SQ		136	138
169 CAM SQ		560	530
169 CMN FT		21	21
169 OLAA		8	8
169 MSQ SQ		50	48
169 RMS SQ		121	117
169 TCI CI		33	37
169 TFG GP		59	53
169 SEP FT		57	56
240 CCS SQ		210	207
8169 STU FT		0	36
HQ SCANG		25	23
169 MSQ FT		37	39
169 SVS FT		34	41
	TOTALS	1,409	1,414

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ASSIGNED
F-16 Aircraft	24	26
C-131 Aircraft	1	1
Support Equipment	151	151
Vehicle Equivalents	495	495

1. COMPONENT ANG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE JAN 1990

3. INSTALLATION AND LOCATION MCENTIRE AIR NATIONAL GUARD BASE SOUTH CAROLINA	4. PROJECT TITLE ECM MAINTENANCE AND STORAGE FACILITY

5. PROGRAM ELEMENT 55294F	6. CATEGORY CODE 217-713	7. PROJECT NUMBER PSTE001367	8. PROJECT COST($000) $550

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ECM MAINTENANCE AND STORAGE FACILITY	SF	4,000	110	440
SUPPORTING FACILITIES				55
UTILITIES	LS			(40)
PAVEMENTS	LS			(10)
SITE IMPROVEMENTS	LS			(5)
SUBTOTAL				495
CONTINGENCY (5%)				25
TOTAL CONTRACT COST				520
SUPERVISION, INSPECTION AND OVERHEAD (5%)				26
TOTAL REQUEST				546
TOTAL REQUEST (ROUNDED)				550

10. Description of Proposed Construction: A single story facility with masonry walls, built-up roof, concrete slab floor, fire protection, including necessary electrical, mechanical and structural work.
Air Conditioning: 20 Tons.

11. REQUIREMENT: 4,000 SF ADEQUATE: 0 SUBSTANDARD: 0

PROJECT: Construct a facility to maintain and store ECM pods (New Mission).

REQUIREMENT: The unit is programmed to receive ECM pods for the 24 fighter aircraft assigned. The facility is required to house the test stations, provide shop area to inspect and repair the pods, and space to store the pods on racks. Functional areas include administrative, shop, storage and mechanical space.

CURRENT SITUATION: Floor space is not available on base for the test equipment, inspection and repair shop, and storage racks to support the ECM pods. This function could not be incorporated into any existing operations facility.

IMPACT IF NOT PROVIDED: The 169th TFG mission to fly and train with the ECM pods cannot be supported without this facility. The pods cannot be maintained in an operational status without a facility to house the test stations.

1. COMPONENT ANG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE JAN 1990
3. INSTALLATION AND LOCATION MCENTIRE AIR NATIONAL GUARD BASE SOUTH CAROLINA		
4. PROJECT TITLE ECM MAINTENANCE AND STORAGE FACILITY		5. PROJECT NUMBER PSTE001367

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	87 MAR 13
(b) Percent Complete as of Jan 90	75%
(c) Date 35% Designed	88 SEP 16
(d) Date Design Complete	90 MAR 13
(2) Basis:	
(a) Standard or Definitive Design -	
(b) Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	28
(b) All Other Design Costs	17
(c) Total	45
(d) Contract	45
(e) In-house	
(4) Construction Start	91 JUL

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT ANG	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE JAN 90
3. INSTALLATION AND LOCATION ELLINGTON AIR NATIONAL GUARD BASE, TEXAS		4. AREA CONSTR COST INDEX 0.89

5. FREQUENCY AND TYPE OF UTILIZATION
Four unit training assemblies per month, 15 days annual field training per year, daily use by technician/AGR force and for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
3 Army Reserve Facilities, 4 Army National Guard Armories, 1 Naval Reserve Facility and 1 Marine Corps Reserve Facility.

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
141-181	ALERT FACILITIES	LS	2,200	MAR 87	DEC 90

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved — 25 FEB 88 (Date)

9. LAND ACQUISITION REQUIRED None
________ (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)
171-445	OPS AND TRAINING FACILITY	19,600 SF	2,200
211-177	UPGRADE HANGAR	61,500 SF	1,800

1. COMPONENT ANG	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE JAN 90

3. INSTALLATION AND LOCATION
ELLINGTON AIR NATIONAL GUARD BASE, TEXAS

11. PERSONNEL STRENGTH AS OF 31 MAY 88

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZED	486	25	371	90	961	134	827
ACTUAL	441	25	326	90	969	133	836

12. RESERVE UNIT DATA

	STRENGTH	
UNIT DESIGNATION	AUTHORIZED	ACTUAL
147 CEG SQ	104	110
147 CLI CI	49	52
147 CLM SQ	429	371
147 FIN GP	65	61
147 MSQ FT	37	31
147 MSQ SQ	71	71
147 RMS SQ	121	128
147 SEP FT	85	79
8147 STU FT	0	66
TOTALS	961	969

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ASSIGNED
F-4D Aircraft	18	18
F-16 Aircraft	18	0
C-26 Aircraft	1	1
Support Equipment	175	168
Vehicle Equivalents	235	233

1. COMPONENT ANG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE JAN 1990

3. INSTALLATION AND LOCATION ELLINGTON AIR NATIONAL GUARD BASE TEXAS	4. PROJECT TITLE ALERT FACILITIES

5. PROGRAM ELEMENT 55294F	6. CATEGORY CODE 141-181	7. PROJECT NUMBER FWJH001354	8. PROJECT COST($000) $2,200

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ALERT FACILITIES	LS			1,732
AIRCRAFT SHELTERS	SF	10,200	72	(734)
ALERT CREW QUARTERS	SF	4,500	75	(338)
TAXIWAY	SY	12,000	55	(660)
SUPPORTING FACILITIES				240
UTILITIES	LS			(100)
COMMUNICATIONS	LS			(30)
SITE IMPROVEMENTS	LS			(80)
PAVEMENTS	LS			(30)
SUBTOTAL				1,972
CONTINGENCY (5%)				99
TOTAL CONTRACT COST				2,071
SUPERVISION, INSPECTION AND OVERHEAD (5%)				104
TOTAL REQUEST				2,175
TOTAL REQUEST (ROUNDED)				2,200

10. Description of Proposed Construction: Concrete floor, steel frame, steel siding and masonry walls, built up roof, and necessary mechanical & electrical systems. Concrete access ramp and taxiway, security fence and lighting.
Air Conditioning: 15 Tons.

11. REQUIREMENT: 14,700 SF ADEQUATE: 0 SUBSTANDARD: 13,200 SF
PROJECT: Alert Facilities (New Mission).
REQUIREMENT: This project supports the conversion from F-4 to F-16 aircraft. The 147th FIG requires adequate alert facilities for fighter interceptor aircraft assigned to active alert as part of the CONUS air defense mission.
CURRENT SITUATION: Existing alert facility does not meet quantity distance criteria (420') from taxiing civilian aircraft. Construction of a new alert facility is required to meet this criteria. Day to day operations expose civilian aircraft to unacceptable hazards from armed alert aircraft. Projected increase in non-military traffic at Ellington will cause hazard to increase. Existing facilities will be converted to needed space for organizational maintenance, corrosion control and weapons up-load training.
IMPACT IF NOT PROVIDED: Unsafe conditions would continue, resulting in possible injury or death in case of accidental detonation.

DD FORM 1391, DEC 76 Previous editions are obsolete. Page No b-95

1. COMPONENT ANG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE JAN 1990
3. INSTALLATION AND LOCATION ELLINGTON AIR NATIONAL GUARD BASE TEXAS		
4. PROJECT TITLE ALERT FACILITIES		5. PROJECT NUMBER FWJH001354

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	87 MAR 13
(b) Percent Complete as of Jan 90	65%
(c) Date 35% Designed	89 OCT 29
(d) Date Design Complete	90 DEC 06
(2) Basis:	
(a) Standard or Definitive Design -	
(b) Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	95
(b) All Other Design Costs	42
(c) Total	137
(d) Contract	137
(e) In-house	
(4) Construction Start	91 JUL

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT ANG	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE JAN 90
3. INSTALLATION AND LOCATION BURLINGTON INTERNATIONAL AIRPORT, VERMONT		4. AREA CONSTR COST INDEX 0.99

5. FREQUENCY AND TYPE OF UTILIZATION
Four unit training assemblies per month, 15 days annual field training per year, daily use by technician/AGR force and for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
1 Naval Reserve, 3 Army National Guard Facilities and HQ VTNG

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
610-129	ADD TO AND ALTER MAINTENANCE HANGAR	6,700 SF	500	AUG 88	MAR 90
217-712	AVIONICS SHOP	12,700 SF	1,700	APR 88	MAR 90

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved

10 NOV 88
(Date)

9. LAND ACQUISITION REQUIRED None
(Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)
131-111	ADD TO AND ALTER COMPOSITE FACILITY	8,701 SF	1,450
219-944	BCE MAINT/SERVICES FACILITY	18,400 SF	2,000
211-157	ENGINE/NDI/POL/WELDING SHOPS	18,400 SF	2,200
730-142	FIRE STATION AND GATE HOUSE	10,000 SF	1,450
124-135	REPLACE UNDERGROUND FUEL STORAGE TANKS	48 EA	2,500

1. COMPONENT ANG	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE JAN 90

3. INSTALLATION AND LOCATION
BURLINGTON INTERNATIONAL AIRPORT, VERMONT

11. PERSONNEL STRENGTH AS OF 17 MAY 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZED	403	24	320	59	1,034	113	921
ACTUAL	374	24	291	59	953	111	842

12. RESERVE UNIT DATA

UNIT DESIGNATION	STRENGTH AUTHORIZED	STRENGTH ACTUAL
000 AYV HQ	25	26
134 FIN SQ	41	44
158 CEG SQ	127	119
158 CLM SQ	418	369
158 FIN GP	63	56
158 MSQ FT	37	34
158 MSQ SQ	52	45
158 RMS SQ	121	121
158 SEP FT	85	78
158 TCI CI	40	35
158 SVS FT	25	26
TOTALS	1,034	953

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ASSIGNED
F-16 Aircraft	18	20
C-12 Aircraft	1	1
Support Equipment	120	115
Vehicle Equivalents	255	248

1. COMPONENT ANG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE JAN 1990

3. INSTALLATION AND LOCATION BURLINGTON INTERNATIONAL AIRPORT VERMONT	4. PROJECT TITLE ADD TO AND ALTER MAINTENANCE HANGAR

5. PROGRAM ELEMENT 55294F	6. CATEGORY CODE 610-129	7. PROJECT NUMBER CURZ889633	8. PROJECT COST($000) $500

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ADD TO AND ALTER MAINTENANCE HANGAR	LS			425
ADD TO WEAPONS SYSTEMS MAINT MGT	SF	3,600	75	(270)
ALTER GENERAL MAINT SHOP	SF	3,100	50	(155)
SUPPORTING FACILITIES				25
UTILITIES	LS			(15)
SITE IMPROVEMENTS	LS			(10)
SUBTOTAL				450
CONTINGENCY (5%)				23
TOTAL CONTRACT COST				473
SUPERVISION, INSPECTION AND OVERHEAD (5%)				24
TOTAL REQUEST				497
TOTAL REQUEST (ROUNDED)				500

10. Description of Proposed Construction: An addition to the maintenance dock with concrete foundation and floor slab, masonry and steel panel walls on steel frame with sloped roof, provide all electrical, mechanical and structural systems for a useable facility to match the existing. Alter the existing facility as required to accommodate the space reallocations resulting from the addition.
Air Conditioning: 12 Tons.

11. REQUIREMENT: 42,360 SF ADEQUATE: 35,660 SF SUBSTANDARD: 3,100 SF
PROJECT: Add to and Alter Maintenance Dock facility (Current Mission).
REQUIREMENT: The aircraft maintenance management section requires adequate facilities to operate as part of the aircraft maintenance program. Additional space for organizational maintenance functions is required adjacent to the maintenance dock to include shop expansion, tool crib and material control. Functional areas in the addition will include maintenance control, plans, scheduling, quality control, records and analysis, training and classroom, chief of maintenance and administrative staff. The need for these renovations was identified during the conversion site survey in May 85. The project is necessary to provide proper maintenance operations for conversion aircraft.
CURRENT SITUATION: The space occupied by the maintenance management function is too small and poorly planned which contributes to an inefficient operation. The quality assurance section lacks TO storage space as well as operating space. Programs, mobility, training, records and analysis currently occupy a temporary trailer, in poor condition, providing inadequate space and is remote from the maintenance facility. Too much time is lost traveling between buildings. There is not training classroom space is the entire complex. The space presently occupied by

1. COMPONENT ANG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE JAN 1990
3. INSTALLATION AND LOCATION BURLINGTON INTERNATIONAL AIRPORT VERMONT		
4. PROJECT TITLE ADD TO AND ALTER MAINTENANCE HANGAR		5. PROJECT NUMBER CURZ889633

maintenance management is adjacent to the maintenance dock and needed for organizational maintenance functions.
IMPACT IF NOT PROVIDED: Use of the existing maintenance management facilities and organizational maintenance shops will continue to reduce the efficiency and performance of these functions in support of the mission. Management of the maintenance functions will be impaired. Optimum job performance will not be obtained due to unpleasant and crowded working conditions. Training of personnel will be difficult without suitable facilities, thereby reducing the level of proficiency and impacting the quality of work in aircraft maintenance.

1. COMPONENT ANG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE JAN 1990
3. INSTALLATION AND LOCATION BURLINGTON INTERNATIONAL AIRPORT VERMONT		
4. PROJECT TITLE ADD TO AND ALTER MAINTENANCE HANGAR		5. PROJECT NUMBER CURZ889633

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 AUG 24
(b) Percent Complete as of Jan 90	95%
(c) Date 35% Designed	89 JAN 03
(d) Date Design Complete	90 MAR 28
(2) Basis:	
(a) Standard or Definitive Design -	
(b) Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	20
(b) All Other Design Costs	10
(c) Total	30
(d) Contract	30
(e) In-house	
(4) Construction Start	91 JUL

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT ANG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE JAN 1990

3. INSTALLATION AND LOCATION BURLINGTON INTERNATIONAL AIRPORT VERMONT	4. PROJECT TITLE AVIONICS SHOP

5. PROGRAM ELEMENT 55294F	6. CATEGORY CODE 217-712	7. PROJECT NUMBER CURZ001146	8. PROJECT COST($000) $1,700

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
AVIONICS SHOP	SF	12,700	115	1,461
SUPPORTING FACILITIES				80
UTILITIES	LS			(35)
PAVEMENTS	LS			(20)
SITE IMPROVEMENTS	LS			(25)
SUBTOTAL				1,541
CONTINGENCY (5%)				77
TOTAL CONTRACT COST				1,618
SUPERVISION, INSPECTION AND OVERHEAD (5%)				81
TOTAL REQUEST				1,699
TOTAL REQUEST (ROUNDED)				1,700

10. Description of Proposed Construction: Concrete foundation and floor slab, masonry and metal insulated panel walls, structural steel frame, pitched metal roof, all utilities, fire protection and support. Air Conditioning: 40 Tons.

11. REQUIREMENT: 12,700 SF ADEQUATE: 0 SUBSTANDARD: 8,520 SF

PROJECT: Construct an Avionics Shop (New Mission).

REQUIREMENT: The unit requires an environmentally controlled and adequately sized facility to remove, test, maintain and repair avionics systems and F-16 components. Functional areas include administration, electronic testing, equipment storage, and training.

CURRENT SITUATION: The base recently converted to the F-16. Short term measures have been taken which provided minimal support for avionics equipment changes occuring with the F-4/F-16 conversion. The existing flight simulator facility is being utilized to cover all special power and environmental work. The existing avionic shop is limited to basic work. Floor space remains inadequate and as the facilities are over a quarter of a mile apart; inefficiences are unavoidable. The vacated space will be altered for the Weapons Release Shop and other areas will be renovated for other maintenance functions at minimal costs.

IMPACT IF NOT PROVIDED: Unit will not be able to sustain a satisfactory level of avionics support for newly assigned aircraft. If these conditions are not resolved, they will degrade training and give a negative impact on unit's readiness and mission accomplishment.

1. COMPONENT ANG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE JAN 1990
3. INSTALLATION AND LOCATION BURLINGTON INTERNATIONAL AIRPORT VERMONT		
4. PROJECT TITLE AVIONICS SHOP		5. PROJECT NUMBER CURZ001146

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 APR 13
(b) Percent Complete as of Jan 90	95%
(c) Date 35% Designed	88 AUG 08
(d) Date Design Complete	90 MAR 12
(2) Basis:	
(a) Standard or Definitive Design -	
(b) Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	78
(b) All Other Design Costs	30
(c) Total	108
(d) Contract	108
(e) In-house	
(4) Construction Start	91 JUL

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT ANG	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE JAN 90
3. INSTALLATION AND LOCATION CAMP PENDLETON, VIRGINIA		4. AREA CONSTR COST INDEX 0.93

5. FREQUENCY AND TYPE OF UTILIZATION

Four unit training assemblies per month, 15 days annual field training per year, daily use by technician/AGR force and for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS

5 Army National Guard Armories, 2 Army Reserve Facilities, 7 Naval Facilities, 2 Marine Corps Facilities and 1 Coast Guard Facility.

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
442-758	BASE SUPPLY AND EQUIPMENT WAREHOUSE	12,800 SF	1,100	APR 88	JUL 90
171-445	COMPOSITE OPERATIONS AND TRAINING FACILITY	21,300 SF	2,650	APR 88	DEC 89

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION

Unilateral Construction Approved — 2 JUN 88 (Date)

9. LAND ACQUISITION REQUIRED — None — (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)
219-944	BASE CIVIL ENGINEER MAINT SHOP STORAGE SHED	12,700 SF	1,250
214-425	VEHICLE MAINTENANCE COMPLEX	15,500 SF	1,400

1. COMPONENT ANG	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE JAN 90

3. INSTALLATION AND LOCATION
CAMP PENDLETON, VIRGINIA

11. PERSONNEL STRENGTH AS OF 31 MAY 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZED	28	2	26	0	215	10	205
ACTUAL	28	2	26	0	191	10	181

12. RESERVE UNIT DATA

	STRENGTH	
UNIT DESIGNATION	AUTHORIZED	ACTUAL
203 CEH FT	215	191
TOTALS	215	191

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ASSIGNED
Training Equipment	54	52
Support Equipment	0	0
Vehicle Equivalents	126	170

1. COMPONENT ANG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE JAN 1990

3. INSTALLATION AND LOCATION CAMP PENDLETON VIRGINIA	4. PROJECT TITLE BASE SUPPLY AND EQUIPMENT WAREHOUSE

5. PROGRAM ELEMENT 55294F	6. CATEGORY CODE 442-758	7. PROJECT NUMBER CTAX000859	8. PROJECT COST($000) $1,100

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
BASE SUPPLY AND EQUIPMENT WAREHOUSE	SF	12,800	75	960
SUPPORTING FACILITIES				25
UTILITIES	LS			(10)
PAVEMENTS	LS			(10)
SITE IMPROVEMENTS	LS			(5)
SUBTOTAL				985
CONTINGENCY (5%)				49
TOTAL CONTRACT COST				1,034
SUPERVISION, INSPECTION AND OVERHEAD (5%)				52
TOTAL REQUEST				1,086
TOTAL REQUEST (ROUNDED)				1,100

10. Description of Proposed Construction: Masonry walls, concrete foundation/floor slab, steel or built-up roof, and all necessary utilities to provide a complete and useable facility. Demolish 7200 SF of WWII Wood Frame Buildings.

Air Conditioning: 20 Tons.

11. REQUIREMENT: 12,800 SF ADEQUATE: 0 SUBSTANDARD: 12,582 SF

PROJECT: Base Supply and Equipment Warehouse (New Mission).

REQUIREMENT: Base supply and equipment warehouse to support the new 203rd Civil Engineering RED HORSE Flight (CERHF). Functional areas include mobility storage, material storage, offices, and data processing. This unit was bedded down FY86. Temporary facilities were used pending personnel recruiting and budgeting for new facilities.

CURRENT SITUATION: New unit supply functions are temporarily occupying one steel and four WWII wood frame buildings scattered throughout Camp Pendleton, Army Guard Area, until such time as its own complex can be built. Four buildings cannot support internal forklift use. Three must be returned in accordance with the lease agreement. Two buildings will be demolished. Materiel handling is presently being performed by hand. Supply facilities and personnel are scattered and the fragmented functions are disorganized by this situation.

IMPACT IF NOT PROVIDED: Present facility use limited to short term, due to poor structural conditions and/or lease agreement. The newly formed RED HORSE Unit will continue to have difficulty meeting its readiness tasking due to poor supply facility support.

ADDITIONAL: FY 91 related project: CTAX889504, Composite Operations and Training Facility.

1. COMPONENT ANG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE **JAN 1990**
3. INSTALLATION AND LOCATION CAMP PENDLETON VIRGINIA		
4. PROJECT TITLE BASE SUPPLY AND EQUIPMENT WAREHOUSE		5. PROJECT NUMBER CTAX000859

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 APR 13
(b) Percent Complete as of Jan 90	75%
(c) Date 35% Designed	88 AUG 06
(d) Date Design Complete	90 JUL 31
(2) Basis:	
(a) Standard or Definitive Design -	
(b) Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	49
(b) All Other Design Costs	19
(c) Total	68
(d) Contract	68
(e) In-house	
(4) Construction Start	91 JUL

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT ANG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE JAN 1990

3. INSTALLATION AND LOCATION CAMP PENDLETON VIRGINIA	4. PROJECT TITLE COMPOSITE OPERATIONS AND TRAINING FACILITY

5. PROGRAM ELEMENT 55294F	6. CATEGORY CODE 171-445	7. PROJECT NUMBER CTAX889504	8. PROJECT COST($000) $2,650

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
COMPOSITE OPERATIONS AND TRAINING FACILITY	SF	21,300		2,157
TRAINING SUPPORT SPACE	SF	11,000	95	(1,045)
DINING HALL	SF	3,800	130	(494)
DISASTER PREPAREDNESS	SF	3,000	95	(285)
BASE CIVIL ENGINEER MAINTENANCE	SF	3,500	95	(333)
SUPPORTING FACILITIES				225
UTILITIES	LS			(55)
PAVEMENTS	LS			(95)
SITE IMPROVEMENTS	LS			(75)
SUBTOTAL				2,382
CONTINGENCY (5%)				119
TOTAL CONTRACT COST				2,501
SUPERVISION, INSPECTION AND OVERHEAD (5%)				125
TOTAL REQUEST				2,626
TOTAL REQUEST (ROUNDED)				2,650

10. Description of Proposed Construction: Masonry and steel construction, built up roof, with concrete sidewalks and paved parking. Air Conditioning: 40 Tons.

11. REQUIREMENT: 21,300 SF ADEQUATE: 0 SUBSTANDARD: 13,800 SF

PROJECT: Composite Operations and Training Facility (New Mission).

REQUIREMENT: An administrative, operations, training, and dining facility for a newly established Civil Enginering Red Horse Flight (203rd CERHF). This unit was bedded down in FY86. Temporary facilities were used pending personnel recruiting and budgeting for new facilities.

CURRENT SITUATION: The 203rd CERHF is temporarily occupying WWII facilities. By agreement, the facilities are to revert back to Army National Guard upon completion of the RED Horse Composite Operations and Training facility. Existing facilities are not adequate for the unit mission and have been made marginally functional only through extensive unit effort.

IMPACT IF NOT PROVIDED: Continued use of existing WWII building will have an adverse impact on operations, training, recruiting and retention. ANG will not be able to honor a transfer agreement specified in current lease.

ADDITIONAL: FY 91 related project: CTAX000859, Base Supply and Equipment Warehouse.

1. COMPONENT ANG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE JAN 1990
3. INSTALLATION AND LOCATION CAMP PENDLETON VIRGINIA		
4. PROJECT TITLE COMPOSITE OPERATIONS AND TRAINING FACILITY		5. PROJECT NUMBER CTAX889504

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	88 APR 13
(b) Percent Complete as of Jan 90	75%
(c) Date 35% Designed	88 AUG 06
(d) Date Design Complete	89 DEC 24
(2) Basis:	
(a) Standard or Definitive Design -	
(b) Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	109
(b) All Other Design Costs	32
(c) Total	141
(d) Contract	141
(e) In-house	
(4) Construction Start	91 JUL

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT ANG	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE JAN 90
3. INSTALLATION AND LOCATION RICHMOND IAP (BYRD FIELD), VIRGINIA		4. AREA CONSTR COST INDEX 0.94

5. FREQUENCY AND TYPE OF UTILIZATION
Four unit training assemblies per month, 15 days annual field training per year, daily use by technician/AGR force and for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
7 Army National Guard, 2 Army Reserve, 1 Marine Corps Reserve, 1 Naval Reserve and 1 Military Entrance Processing Station.

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
217-712	ADD TO AND ALTER AVIONICS AND ECM SHOP	16,000 SF	1,200	AUG 85	MAY 88
116-665	POWER CHECK PAD WITH SOUND SUPPRESSOR	LS	700	SEP 85	MAR 87

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved 27 JAN 89
(Date)

9. LAND ACQUISITION REQUIRED None
(Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)
124-135	JET FUEL STORAGE COMPLEX	LS	3,000
124-135	REPLACE UNDERGROUND FUEL STORAGE TANKS	74 EA	3,900
112-211	TAXIWAY LIGHTS	LS	450
214-425	VEHICLE MAINTENANCE COMPLEX	28,700 SF	3,000

1. COMPONENT ANG	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE JAN 90

3. INSTALLATION AND LOCATION
RICHMOND IAP (BYRD FIELD), VIRGINIA

11. PERSONNEL STRENGTH AS OF 23 MAY 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZED	317	9	42	266	1,107	120	987
ACTUAL	311	9	41	261	1,048	113	935

12. RESERVE UNIT DATA

	STRENGTH	
UNIT DESIGNATION	AUTHORIZED	ACTUAL
192 TFG SQ	58	50
192 SEP FT	57	59
149 TFG SQ	67	51
192 CLM SQ	454	435
192 MSQ FT	37	38
192 NSQ SQ	51	54
192 TCI CI	52	51
192 CEG SQ	127	121
192 SVS FT	27	27
192 RMS SQ	121	124
200 WEA FT	21	8
8192 STU FT	35	30
TOTALS	1,107	1,048

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ASSIGNED
A-7 Aircraft	24	26
Support Equipment	221	188
Vehicle Equivalents	219	245

1. COMPONENT ANG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE JAN 1990

3. INSTALLATION AND LOCATION RICHMOND IAP (BYRD FIELD) VIRGINIA	4. PROJECT TITLE ADD TO AND ALTER AVIONICS AND ECM SHOP

5. PROGRAM ELEMENT 55294F	6. CATEGORY CODE 217-712	7. PROJECT NUMBER CVVM000940	8. PROJECT COST($000) $1,200

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ADD TO AND ALTER AVIONICS AND ECM SHOP				1,002
ADD TO AVIONICS	SF	6,300	105	(662)
ALTER AVIONICS/ECM SHOP	SF	9,700	35	(340)
SUPPORTING FACILITIES				65
UTILITIES	LS			(55)
SITE IMPROVEMENTS	LS			(10)
SUBTOTAL				1,067
CONTINGENCY (5%)				53
TOTAL CONTRACT COST				1,120
SUPERVISION, INSPECTION AND OVERHEAD (5%)				56
TOTAL REQUEST				1,176
TOTAL REQUEST (ROUNDED)				1,200

10. Description of Proposed Construction: Addition to existing shop with similar materials and construction. Provide electrical services (28VDC and 400HZ power), environmental controls, raised flooring (where needed), fire suppression, and lighting. Alterations to existing will upgrade in mechanical systems and environmental controls, as well as extend fire suppression system.

Air Conditioning: 40 Tons.

11. REQUIREMENT: 16,000 SF ADEQUATE: 0 SUBSTANDARD: 9,700 SF

PROJECT: Construct an Addition to and alter Existing Avionics shop space (New Mission).

REQUIREMENT: An adequately sized and configured facility (environmentally controlled) to checkout/repair modern computerized avionics components. Facility must have sufficient electrical power and fire suppression to protect the high value equipment.

CURRENT SITUATION: Present space is inadequate/inefficient to maintain avionics systems for the assigned aircraft. Additional space will be required to support new test equipment, increased storage and training/administrative space for conversion to a new aircraft. Avionics personnel now work ten hour shifts, six days a week. On a drill weekend there is virtually no space for maintenance or training. Environmental controls do not meet technical order requirements.

IMPACT IF NOT PROVIDED: Overcrowded conditions will continue to severely reduce maintenance efficiency and training. Shop will not be able to support aircraft conversion with it's increase in test and maintenance requirements. Operational readiness and unit capability will be adversely impacted.

1. COMPONENT ANG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE JAN 1990
3. INSTALLATION AND LOCATION RICHMOND IAP (BYRD FIELD) VIRGINIA		
4. PROJECT TITLE ADD TO AND ALTER AVIONICS AND ECM SHOP		5. PROJECT NUMBER CVVM000940

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	85 AUG 26
(b) Percent Complete as of Jan 90	100%
(c) Date 35% Designed	86 SEP 18
(d) Date Design Complete	88 MAY 23
(2) Basis:	
(a) Standard or Definitive Design -	
(b) Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	55
(b) All Other Design Costs	28
(c) Total	83
(d) Contract	83
(e) In-house	
(4) Construction Start	91 MAR

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT ANG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE JAN 1990

3. INSTALLATION AND LOCATION RICHMOND IAP (BYRD FIELD) VIRGINIA	4. PROJECT TITLE POWER CHECK PAD WITH SOUND SUPPRESSOR

5. PROGRAM ELEMENT 55294F	6. CATEGORY CODE 116-665	7. PROJECT NUMBER CVVM000246	8. PROJECT COST($000) $700

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
POWER CHECK PAD WITH SOUND SUPPRESSOR	LS			480
SUPPORTING FACILITIES				155
UTILITIES	LS			(50)
PAVEMENTS	LS			(75)
SITE IMPROVEMENTS	LS			(30)
SUBTOTAL				635
CONTINGENCY (5%)				32
TOTAL CONTRACT COST				667
SUPERVISION, INSPECTION AND OVERHEAD (5%)				33
TOTAL REQUEST				700
TOTAL REQUEST (ROUNDED)				700
EQUIPMENT FROM OTHER APPROPRIATIONS (NON-ADD)				(1,300)

10. Description of Proposed Construction: Portland cement concrete suppressor foundation with access taxiway and service road, waste water collection system and oil separator. Provide all utilities and other support.

11. REQUIREMENT: 1 LS ADEQUATE: 0 SUBSTANDARD: 0

PROJECT: Provide a facility for Conducting Jet Engine Testing (New Mission).

REQUIREMENT: Testing of aircraft engines on the ground requires long periods of engine thrust that create a noise hazard environment for nearby on and off base personnel. This facility provides a controlled test environment that minimizes this hazard and provides shelter from the climate.

CURRENT SITUATION: The base does not have a suppressed power check pad adequate for new aircraft. Without this facility, testing will have to be done outside without sound suppression using a deadman slab and anchors. This creates considerable noise which disturbs the on and off base population, especially during afterburner runs which are a requirement for new aircraft. In addition, engine testing will not be accomplished in inclement weather, as no inside test facility will exist.

IMPACT IF NOT PROVIDED: Use of unsuppressed pads for engine testing will endanger hearing of personnel and limit testing of aircraft engines to those periods when suitable climatic conditions exist. Noise levels of new aircraft will increase the impact felt on the surrounding communities.

1. COMPONENT ANG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE JAN 1990

3. INSTALLATION AND LOCATION

RICHMOND IAP (BYRD FIELD) VIRGINIA

4. PROJECT TITLE POWER CHECK PAD WITH SOUND SUPPRESSOR	5. PROJECT NUMBER CVVM000246

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	85 SEP 09
(b) Percent Complete as of Jan 90	100%
(c) Date 35% Designed	86 JAN 30
(d) Date Design Complete	87 MAR 23
(2) Basis:	
(a) Standard or Definitive Design -	
(b) Where Design Was Most Recently Used -	
(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	18
(b) All Other Design Costs	17
(c) Total	35
(d) Contract	35
(e) In-house	
(4) Construction Start	91 MAY

b. Equipment associated with this project will be provided from other appropriations:

EQUIPMENT NOMENCLATURE	PROCURING APPROPRIATION	FISCAL YEAR APPROPRIATED OR REQUESTED	COST ($000)

1. COMPONENT ANG	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE JAN 90
3. INSTALLATION AND LOCATION PUERTO RICO IAP, PUERTO RICO		4. AREA CONSTR COST INDEX 1.12

5. FREQUENCY AND TYPE OF UTILIZATION
Four unit training assemblies per month, 15 days annual field training per year, daily use by technician/AGR force and for training.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS
1 Air National Guard Unit, 1 Active Army Unit, 8 Army National Guard Units, 3 Army Reserve Units and 2 Naval Units.

7. PROJECTS REQUESTED IN THIS PROGRAM: FY 91

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS CMPL
880-232	FIRE SUPPRESSION SYSTEM	LS	1,097	SEP 84	AUG 87

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION
Unilateral Construction Approved — 15 MAR 89 (Date)

9. LAND ACQUISITION REQUIRED None ______ (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)
113-321	ADD AIRCRAFT PARKING APRON	18,400 SY	1,900
211-157	ADD TO AND ALTER ENGINE SHOP	6,100 SF	450
124-135	ADD TO AND ALTER JET FUEL STORAGE FACILITY	3,575 BL	1,150
211-179	ALTER FUEL SYSTEMS MAINTENANCE DOCK	11,300 SF	600
872-841	EXPAND SECURITY SYSTEM	LS	700
730-142	FIRE STATION	7,100 SF	900
442-758	MOBILITY STORAGE FACILTIY	9,000 SF	500
216-642	MUNITIONS MAINTENANCE/STORAGE FACILITY	18,000 SF	2,450
116-665	POWER CHECK PAD W/NOISE SUP	LS	860

1. COMPONENT ANG	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE JAN 90

3. INSTALLATION AND LOCATION
PUERTO RICO IAP, PUERTO RICO

11. PERSONNEL STRENGTH AS OF 31 MAY 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZED	382	24	254	104	968	110	858
ACTUAL	332	22	208	102	925	108	817

12. RESERVE UNIT DATA

	STRENGTH	
UNIT DESIGNATION	AUTHORIZED	ACTUAL
156 TFG SQ	53	49
156 CEG SQ	141	115
156 CLM SQ	347	338
156 TFG OL	7	7
156 MSQ FT	40	38
156 MSQ SQ	51	50
156 RMS SQ	121	119
156 SVS FT	34	27
156 TCI OL	3	3
156 TCI CI	64	65
156 SEP FT	57	56
198 CEG SQ	50	58
TOTALS	968	925

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ASSIGNED
A-7 Aircraft	18	25
Support Equipment	110	92
Vehicle Equivalents	251	239

1. COMPONENT ANG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE JAN 1990

3. INSTALLATION AND LOCATION PUERTO RICO IAP PUERTO RICO	4. PROJECT TITLE FIRE SUPPRESSION SYSTEM

5. PROGRAM ELEMENT 55294F	6. CATEGORY CODE 880-232	7. PROJECT NUMBER TUMR000101	8. PROJECT COST($000) $1,097

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
FIRE SUPPRESSION SYSTEM	LS			600
FIRE SUPPRESSION SYSTEM	LS			(400)
AUTOMATIC FIRE ALARM SYSTEM	LS			(200)
SUPPORTING FACILITIES				395
WATER SUPPLY SYSTEM	LS			(225)
AUTOMATIC SPRINKLER SYSTEM	LS			(100)
UTILITIES	LS			(70)
SUBTOTAL				995
CONTINGENCY (5%)				50
TOTAL CONTRACT COST				1,045
SUPERVISION, INSPECTION AND OVERHEAD (5%)				52
TOTAL REQUEST				1,097

10. Description of Proposed Construction: Install basewide fire alarm system incorporating central receiving and recording console with subordinate units, automatic detection, pull boxes and controls, and sprinkler system; under wing suppression systems in the three hangers; expand and improve the base water system for fire protection. All necessary utility connections and support.

11. REQUIREMENT: 1 LS ADEQUATE: 0 SUBSTANDARD: 0

PROJECT: Fire Suppression and Detection System (Current Mission).

REQUIREMENT: An adequate fire detection/suppression system with recorder is required to protect the high value assets and the lives of base personnel.

CURRENT SITUATION: Aircraft maintenance facilities are not protected from fire. Due to the presence of highly flammable materials, including fuels, and lubricants, the maintenance facilities have a very hazardous environment. The relatively small investment in fire suppression helps to protect nine aircraft if all dock spaces are filled; in addition, it also protects maintenance equipment and the lives of base personnel. This project protects assets worth in excess of $28 million.

IMPACT IF NOT PROVIDED: Current conditions are conducive to possible loss of aircrafts, equipment, facilities and life due to fire. Any such loss would have an adverse impact and seriously impair the critical unit mission capability.

1. COMPONENT ANG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE JAN 1990
3. INSTALLATION AND LOCATION PUERTO RICO IAP PUERTO RICO		
4. PROJECT TITLE FIRE SUPPRESSION SYSTEM		5. PROJECT NUMBER TUMR000101

12. SUPPLEMENTAL DATA:

a. Estimated Design Data:

(1) Status:	
(a) Date Design Started	84 SEP 09
(b) Percent Complete as of Jan 90	100%
(c) Date 35% Designed	85 DEC 05
(d) Date Design Complete	87 AUG 15

(2) Basis:
(a) Standard or Definitive Design -
(b) Where Design Was Most Recently Used -

(3) Total Cost (c) = (a) + (b) or (d) + (e):	($000)
(a) Production of Plans and Specifications	40
(b) All Other Design Costs	20
(c) Total	60
(d) Contract	60
(e) In-house	
(4) Construction Start	91 AUG

b. Equipment associated with this project will be provided from other appropriations: N/A

1. COMPONENT ANG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 1990
3. INSTALLATION AND LOCATION VARIOUS LOCATIONS - WITHIN THE UNITED STATES		
4. PROJECT TITLE PROJECTS $400,000 AND UNDER - FY 91		5. PROJECT NUMBER VARIOUS

STATE AND LOCATION
PROJECT NUMBER — PROJECT TITLE — COST

ARKANSAS
Fort Smith Municipal Airport (ANG)
PN HKRZ000994 — Taxiway — 400

Construct a 3,800 SY paved surface taxiway access which will provide a second access to the primary taxiway to facilitate aircraft operations, alleviate restricted aircraft movement and provide a second aircraft exit in case of emergency. (Current Mission)

GEORGIA
Hunter ANG Station No. 2
PN LDWL000981 — Mobility Storage Warehouse — 325

Construct a 6,000 SF pre-engineered metal Mobility Storage Warehouse for unit mobility assets, including tents, food service equipment, communications support equipment, and various items required to support deployment of unit. (New Mission)

ILLINOIS
Capital Municipal Airport ANG
PN DCFT000812 — Special Fuels Facility — 300

Construct an 800 SF Hydrazine maintenance and storage facility to support units F-16 conversion. Base has been identified as the Regional facility for other ANG bases for hydrazine fuels support. (New Mission)

INDIANA
Fort Wayne Municipal Airport
PN ATQZ001056 — Small Arms Range — 400

Construct a 25 meter, 21 position outdoor Small Arms Range with required storage, command and control facilities, baffling, cover and berming for the small arms training of 1200 unit personnel occupying mobility positions. (Current Mission)

INDIANA
Hulman Regional Airport
PN LDXF000530 — Petroleum Operations and Laboratory — 350

Construct a 1,500 SF masonary Petroleum Operations and Laboratory facility with all required Refueling Operations functions including laboratory, ready room for drivers, classroom, locker/shower room and administrative space. (Current Mission)

1. COMPONENT	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE
ANG		JAN 1990

3. INSTALLATION AND LOCATION

VARIOUS LOCATIONS - WITHIN THE UNITED STATES

4. PROJECT TITLE	5. PROJECT NUMBER
PROJECTS $400,000 AND UNDER - FY 91	VARIOUS

STATE AND LOCATION PROJECT NUMBER	PROJECT TITLE	COST
MARYLAND Andrews Air Force Base PN AJXF889515	Special Fuels Facility	300

Construct an 800 SF Hydrazine maintenance and storage facility to support units F-16 conversion. Base has been identified as the Regional facility for other ANG bases for hydrazine fuels support. (New Mission)

MISSISSIPPI Gulfport MPT Permanent Training Base PN JTVE889706	Alter Base Supply Warehouse	250

Alter two existing pre-engineered metal buildings totalling 6,800 SF to provide additional storage space required for individual mobilization equipment and team kit items for unit and tenant organizations personnel. (New Mission)

MISSOURI Lambert-St. Louis IAP ANG PN MSQB001631	Alter Engine Shop	400

Alter an existing facility to support new engine requirements. Project includes new hoists, tire shop relocation, increased power requirements, bearing inspection room, parts cleaning room and ventilation and exhaust to comply with safety standards. (New Mission)

MISSOURI Rosecrans Memorial Airport PN ULYB001265	Add to Aircraft Welding Shop	250

This project will provide a 1,200 SF area in which to perform maintenance and repair of aircraft by welding. (New Mission)

NEW JERSEY Atlantic City PN AQRC000827	Base Entry Complex	400

Construct a new Base Entry Complex to replace existing facility which, due to new county road, will be relocated to meet new entry location. Complex will include all necessary site work and anti-terrorist criteria and will facilitate vehicle movement in accordance with the new county by-pass road being constructed. (Current Mission)

1. COMPONENT ANG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE JAN 1990
3. INSTALLATION AND LOCATION VARIOUS LOCATIONS - WITHIN THE UNITED STATES		
4. PROJECT TITLE PROJECTS $400,000 AND UNDER - FY 91		5. PROJECT NUMBER VARIOUS

STATE AND LOCATION PROJECT NUMBER	PROJECT TITLE	COST
NORTH CAROLINA		
Charlotte		
PN FJRP899622	ADAL Squad Ops	400

Add 1,800 SF and Alter 11,800 SF of the Squadron Operations Facility to house the squadron operation functions increased requirements. Area is needed for planning, briefing, training and aircrew critique. (New Mission)

OKLAHOMA		
Will Rogers World Airport		
PN YZEU001579	BCE/Mobility Storage Warehouse	400

Construct a 6,000 SF brick and metal storage facility for storage of large items in the Civil Engineering and Supply functions. (Current Mission)

PENNSYLVANIA		
Greater Pittsburg ANG Base		
PN JLSQ000366	Vehicle Storage Facility	300

Construct a 4,000 SF Vehicle Storage Facility including site improvements to provide a weatherproof storage area for large vehicles. (Current Mission)

TEXAS		
Dallas NAS		
PN EZTH001493	Add to and Alter Aerial Port Training Facility	325

Construct Additional 1,200 SF and Alter 4,000 SF of existing facility to provide administration, training and mobility areas for assigned unit members. (Current Mission)

WEST VIRGINIA		
EWVRA Shepherd Field ANG		
PN PJVY899674	ADAL Avionics Shop	400

Construct 3,000 SF Addition and Alter 3,400 SF of existing facility to provide additional space required for avionics maintenance and equipment repair assosciated with the conversion of aircraft from C-130B to C-130E. (New Mission)

DEPARTMENT OF THE AIR FORCE
JUSTIFICATION OF ESTIMATES FOR FISCAL YEAR 1991

APPROPRIATION:	MILITARY CONSTRUCTION -- AIR NATIONAL GUARD	
PROGRAM 341:	MINOR CONSTRUCTION	$3,793,000

PART I -- PURPOSE AND SCOPE

The funds estimated in this program are to provide financing for new construction and alteration projects having cost estimates greater than $200,000 but not exceeding $400,000 which are not otherwise authorized by law.

PART II -- JUSTIFICATION OF FUNDS REQUESTED

The funds required for Minor Construction will finance projects for which the justification is such that they should not be included in the regular Military Construction Program for the Air National Guard and such that they exceed the minor construction work authorization in the Operations and Maintenance Appropriation.

1. COMPONENT ANG	FY 1966 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE JAN 1990

3. INSTALLATION AND LOCATION VARIOUS LOCATIONS (UNSPECIFIED)	4. PROJECT TITLE

5. PROGRAM ELEMENT 55294F	6. CATEGORY CODE 020-000	7. PROJECT NUMBER AAAA889753	8. PROJECT COST($000) $3,793

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
MINOR CONSTRUCTION				3,793
MINOR CONSTRUCTION	LS			(3,793)
SUBTOTAL				3,793
TOTAL CONTRACT COST				3,793
TOTAL REQUEST				3,793

10. Description of Proposed Construction: Provide a lump sum amount for construction projects not otherwise authorized by law, having a funding of between $200,000 and $400,000, including construction, alteration or conversion of permanent or temporary facilities. The Secretary of the Air Force has the authority to approve projects of this nature under the provisions of 10 U. S. C. 2233a.

11. REQUIREMENT: As required.

REQUIREMENT: This program provides the means of accomplishing projects not exceeding $400,000 that are not now identified, but which are anticipated to arise during FY 91 to satisfy critical, unforeseen mission requirements. This proposed FY 91 cost is larger than requested in FY 90 and also the initial FY 91 submittal. The increase is attributed to the anticipated increase in aircraft conversions that may come to the ANG and the need to provide facilities to meet unexpected conversions.

DEPARTMENT OF THE AIR FORCE
JUSTIFICATION OF ESTIMATES FOR FISCAL YEAR 1991

APPROPRIATION: MILITARY CONSTRUCTION -- AIR NATIONAL GUARD

PROGRAM 313: PLANNING AND DESIGN $8,800,000

PART I -- PURPOSE AND SCOPE

The funds estimated in this program are to provide financing for project planning and design of the construction requirements for the Air National Guard.

PART II -- JUSTIFICATION OF FUNDS REQUESTED

The funds required for Planning and Design will provide for establishing project construction design of facilities and for achieving a full evaluation of each designed project in terms of technical adequacy and estimated costs.

1. COMPONENT ANG	FY 1991 MILITARY CONSTRUCTION PROJECT DATA (computer generated)	2. DATE JAN 1990

3. INSTALLATION AND LOCATION VARIOUS LOCATIONS (UNSPECIFIED)	4. PROJECT TITLE PLANNING AND DESIGN

5. PROGRAM ELEMENT 55294F	6. CATEGORY CODE 010-211	7. PROJECT NUMBER AAAA889755	8. PROJECT COST($000) $8,800

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
PLANNING AND DESIGN				8,800
PLANNING AND DESIGN	LS			(8,800)
SUBTOTAL				8,800
TOTAL CONTRACT COST				8,800
TOTAL REQUEST				8,800
TOTAL REQUEST (ROUNDED)				8,800

10. Description of Proposed Construction: The funds requested will provide for final design of facilities and to achieve full evaluation for each project in terms of techinical adequacy and estimated cost. In addition, the funds are required to prepare working drawings, specifications, and project reports for the disign of construction projects to be included in future Military Construction Programs.

11. REQUIREMENT: As required.
REQUIREMENT: The FY 91 design cost is more than the initial FY 91 submittal. The increase in cost is attributed to the need to expedite design projects that will be included in the FY 92 and 93 MILCON program and to partially replenish the design funds used to design FY 90 Congressional adds.

FY 1991 Budget Estimates

AIR FORCE RESERVE

AIR FORCE RESERVE

FY 91
MILITARY CONSTRUCTION PROGRAM

January 1990

Justification Data Submitted to Congress

(1087)

26-503 O—90——35

DEPARTMENT OF THE AIR FORCE
AIR FORCE RESERVE
JUSTIFICATION OF ESTIMATES FOR FISCAL YEAR 1991
MILITARY CONSTRUCTION PROGRAM

TABLE OF CONTENTS

Table of Contents..............................a-i

FY 1991 Military Construction Audit Trail........a-ii

State List......................................a-v

New Mission/Current Mission Listing.............a-viii

Section I - Budget Appendix Extract.........................b-i

Language..b-ii
Program and Financing Schedule FY 1991..........b-iii
Object Classification Schedule..................b-iii
Special Program Considerations..................b-iv
Maintenance and Repair Budget Request...........b-vi

Section II - Installation and Project Justification Data DD Forms 1390S/1, 1390s/2, 1391 and 1391c........c-i

Major Construction.............................. 1
Projects $400,000 and under.....................86
Minor Construction..............................88
Architectural & Engineering Services and Construction Design............................90

DEPARTMENT OF THE AIR FORCE
AIR FORCE RESERVE
MILITARY CONSTRUCTION PROGRAM - FY 1991

FY 1991 MILITARY CONSTRUCTION AUDIT TRAIL

State/ Country	Installation and Project	FY 1990/1991 Biennial Budget($000)	Change ($000)	Amended FY 1990/199 Biennial Budget($000
	INSIDE THE UNITED STATES			
Alabama	Maxwell AFB			
	Survival Equipment/Life Support Shop	-0-	+1,025	1,025
	Subtotal		+1,025	1,025
Arizona	Davis-Monthan AFB			
	Civil Engineering Training Facility	840	+60	900
	Subtotal	840	+60	900
Colorado	Lowry AFB			
	Civil Engineering Training Facility	840	+60	900
	Subtotal	840	+60	900
Florida	Eglin AFB, Auxiliary Field 3			
	Medical Training Facility	1,600	-0-	1,600
	Subtotal	1,600		1,600
	Homestead AFB			
	Add Fire Protection, Aircraft Hangars	2,300	+100	2,400
	Subtotal	2,300	+100	2,400
Georgia	Dobbins AFB			
	Readiness Addition, 14th AF Headquarters	2,900	-0-	2,900
	Subtotal	2,900		2,900
Hawaii	Hickam AFB			
	Aerial Port Training Facility	1,000	+200	1,200
	Subtotal	1,000	+200	1,200
Illinois	O'Hare ARFF			
	Security Police Operations Facility	980	+100	1,080
	Subtotal	980	+100	1,080

DEPARTMENT OF THE AIR FORCE
AIR FORCE RESERVE
MILITARY CONSTRUCTION PROGRAM - FY 1991

FY 1991 MILITARY CONSTRUCTION AUDIT TRAIL

State/ Country	Installation and Project	FY 1990/1991 Biennial Budget($000)	Change ($000)	Amended FY 1990/1991 Biennial Budget($000)
	INSIDE THE UNITED STATES			
Kansas	McConnell AFB			
	Civil Engineering Training Facility	940	+60	1,000
	Subtotal	940	+60	1,000
Michigan	Selfridge ANGB			
	Add/Alter Fuel Systems Maintenance Dock	590	+60	650
	Aerial Port Training Facility	1,850	-0-	1,850
	Subtotal	2,440	+60	2,500
Mississippi	Keesler AFB			
	Medical Training Facility	580	+20	600
	Subtotal	580	+20	600
Nebraska	Offutt AFB			
	Add/Alter Civil Engineering Training	730	+70	800
	Subtotal	730	+70	800
New York	Niagara Falls IAP			
	Munitions Storage (w/ANG)	100	+100	200
	Subtotal	100	+100	200
North Carolina	Pope AFB			
	Civil Engineering Training Facility	710	+80	790
	Subtotal	710	+80	790
Ohio	Rickenbacker ANGB			
	Alter Fuel Maintenance Dock (w/ANG)	440	+60	500
	Subtotal	440	+60	500
	Wright-Patterson AFB			
	Upgrade Hangars/Shops	3,706	+75	3,781
	Subtotal	3,706	+75	3,781

DEPARTMENT OF THE AIR FORCE
AIR FORCE RESERVE
MILITARY CONSTRUCTION PROGRAM - FY 1991

FY 1991 MILITARY CONSTRUCTION AUDIT TRAIL

State/ Country	Installation and Project	FY 1990/1991 Biennial Budget($000)	Change ($000)	Amended FY 1990/199 Biennial Budget($000
	INSIDE THE UNITED STATES			
Pennsylvania	Greater Pittsburgh IAP			
	Medical Training Facility	1,900	-0-	1,900
	Subtotal	1,900		1,900
	Willow Grove ARF			
	Medical Training Facility (w/ANG)	1,250	-0-	1,250
	Subtotal	1,250		1,250
Texas	Bergstrom AFB			
	Add/Alter Maintenance Shops	2,450	-0-	2,450
	Subtotal	2,450		2,450
	Kelly AFB			
	Composite Training Facility	1,400	-0-	1,400
	RED HORSE Vehicle Maintenance Shop	2,150	+150	2,300
	Subtotal	3,550	+150	3,700
Washington	McChord AFB			
	Squadron Operations Facility	-0-	+1,500	1,500
	Subtotal		+1,500	1,500
CONUS	AFR 61			
	Avionics Shop	2,150	-2,150	-0-
	Add/Alter Maintenance Shops	500	-500	-0-
	Subtotal	2,650	-2,650	-0-
TOTAL INSIDE THE UNITED STATES		31,906	+1,070	32,976
Worldwide	Minor Construction	3,130	-1,715	1,415
	Arch & Eng Svcs and Const Design	3,464	-155	3,309
	Subtotal	6,594	-1,870	4,724
GRAND TOTAL		38,500	-800	37,700

DEPARTMENT OF THE AIR FORCE
AIR FORCE RESERVE
MILITARY CONSTRUCTION PROGRAM - FY 1991
(DOLLARS IN THOUSANDS)

STATE LIST

State/ Country	Installation and Project	Auth Amount	Approp Amount	DD FORM 1391 Page No
	INSIDE THE UNITED STATES			
Alabama	Maxwell AFB			
	Survival Equipment/Life Support Shop	1,025	1,025	3
	Subtotal	1,025	1,025	
Arizona	Davis-Monthan AFB			
	Civil Engineering Training Facility	900	900	7
	Subtotal	900	900	
Colorado	Lowry AFB			
	Civil Engineering Training Facility	900	900	11
	Subtotal	900	900	
Florida	Eglin AFB, Auxiliary Field 3			
	Medical Training Facility	1,600	1,600	15
	Subtotal	1,600	1,600	
	Homestead AFB			
	Add Fire Protection, Aircraft Hangars	2,400	2,400	19
	Subtotal	2,400	2,400	
Georgia	Dobbins AFB			
	Readiness Addition, 14th AF Headquarters	2,900	2,900	23
	Subtotal	2,900	2,900	
Hawaii	Hickam AFB			
	Aerial Port Training Facility	1,200	1,200	27
	Subtotal	1,200	1,200	
Illinois	O'Hare ARFF			
	Security Police Operations Facility	1,080	1,080	31
	Subtotal	1,080	1,080	
Kansas	McConnell AFB			
	Civil Engineering Training Facility	1,000	1,000	35
	Subtotal	1,000	1,000	

DEPARTMENT OF THE AIR FORCE
AIR FORCE RESERVE
MILITARY CONSTRUCTION PROGRAM - FY 1991
(DOLLARS IN THOUSANDS)

STATE LIST

State/ Country	Installation and Project	Auth Amount	Approp Amount	DD FORM 1391 Page No
	INSIDE THE UNITED STATES			
Michigan	Selfridge ANGB			
	Add/Alter Fuel Systems Maintenance Dock	650	650	39
	Aerial Port Training Facility	1,850	1,850	41
	Subtotal	2,500	2,500	
Mississippi	Keesler AFB			
	Medical Training Facility	600	600	45
	Subtotal	600	600	
Nebraska	Offutt AFB			
	Add/Alter Civil Engineering Training	800	800	49
	Subtotal	800	800	
New York	Niagara Falls IAP			
	Munitions Storage (w/ANG)	200	200	87
	Subtotal	200	200	
North Carolina	Pope AFB			
	Civil Engineering Training Facility	790	790	53
	Subtotal	790	790	
Ohio	Rickenbacker ANGB			
	Alter Fuel Maintenance Dock (w/ANG)	500	500	57
	Subtotal	500	500	
	Wright-Patterson AFB			
	Upgrade Hangars/Shops	3,781	3,781	61
	Subtotal	3,781	3,781	
Pennsylvania	Greater Pittsburgh IAP			
	Medical Training Facility	1,900	1,900	65
	Subtotal	1,900	1,900	
	Willow Grove ARF			
	Medical Training Facility (w/ANG)	1,250	1,250	69
	Subtotal	1,250	1,250	

DEPARTMENT OF THE AIR FORCE
AIR FORCE RESERVE
MILITARY CONSTRUCTION PROGRAM - FY 1991
(DOLLARS IN THOUSANDS)

STATE LIST

State/ Country	Installation and Project	Auth Amount	Approp Amount	DD FORM 1391 Page No
	INSIDE THE UNITED STATES			
Texas	Bergstrom AFB			
	Add/Alter Maintenance Shops	2,450	2,450	73
	Subtotal	2,450	2,450	
	Kelly AFB			
	Composite Training Facility	1,400	1,400	78
	RED HORSE Vehicle Maintenance Shop	2,300	2,300	80
	Subtotal	3,700	3,700	
Washington	McChord AFB			
	Squadron Operations Facility	1,500	1,500	84
	Subtotal	1,500	1,500	
TOTAL INSIDE THE UNITED STATES		32,976	32,976	
Worldwide	Minor Construction	1,415	1,415	89
	Arch & Eng Svcs and Const Design	3,309	3,309	90
GRAND TOTAL		37,700	37,700	

DEPARTMENT OF THE AIR FORCE
AIR FORCE RESERVE
MILITARY CONSTRUCTION PROGRAM - FY 1991
(DOLLARS IN THOUSANDS)

NEW MISSION/CURRENT MISSION LISTING

LOCATION	PROJECT	COST	NEW/ CURRENT
Maxwell AFB, AL	Survival Equipment/Life Support Shop	1,025	C
Davis-Monthan AFB, AZ	Civil Engineering Training Facility	900	C
Lowry AFB, CO	Civil Engineering Training Facility	900	C
Eglin AFB, Aux Fld 3, FL	Medical Training Facility	1,600	C
Homestead AFB, FL	Add Fire Protection, Aircraft Hangars	2,400	C
Dobbins AFB, GA	Readiness Addition, 14th AF Headquarters	2,900	N
Hickam AFB, HI	Aerial Port Training Facility	1,200	C
O'Hare ARFF, IL	Security Police Operations Facility	1,080	C
McConnell AFB, KA	Civil Engineering Training Facility	1,000	C
Selfridge ANGB, MI	Add/Alter Fuel Systems Maintenance Dock	650	C
Selfridge ANGB, MI	Aerial Port Training Facility	1,850	C
Keesler AFB, MS	Medical Training Facility	600	C
Offutt AFB, NE	Add/Alter Civil Engineering Training	800	C
Niagara Falls IAP, NY	Munitions Storage (w/ANG)	200	C
Pope AFB, NC	Civil Engineering Training Facility	790	C
Rickenbacker ANGB, OH	Alter Fuel Maintenance Dock (w/ANG)	500	N
Wright-Patterson AFB, OH	Upgrade Hangars/Shops	3,781	C
Greater Pittsburgh IAP, PA	Medical Training Facility	1,900	C
Willow Grove ARF, PA	Medical Training Facility (w/ANG)	1,250	C
Bergstrom AFB, TX	Add/Alter Maintenance Shops	2,450	N
Kelly AFB, TX	Composite Training Facility	1,400	C
Kelly AFB, TX	RED HORSE Vehicle Maintenance Shop	2,300	C
McChord AFB, WA	Squadron Operations Facility	1,500	C
		32,976	

Subtotals

New Mission	5,850
Current Mission	27,126
	32,976
Minor Construction	1,415
Arch & Eng Svcs and Const Design	3,309
TOTAL	37,700

SECTION I - BUDGET APPENDIX EXTRACT

DEPARTMENT OF THE AIR FORCE
AIR FORCE RESERVE
JUSTIFICATION OF ESTIMATES FOR FISCAL YEAR 1991

APPROPRIATION LANGUAGE

MILITARY CONSTRUCTION, AIR FORCE RESERVE

For acquisition, construction, expansion, rehabilitation and conversion of facilities for the training and administration of the Air Force Reserve, and contribution therefore, as authorized by Chapter 133 of Title 10, United States Code, and military construction authorization Acts, $37,700,000 ($46,200,000) to remain available until 30 September 1995 (30 September 1994).

( ) indicates FY 1990 appropriation

Mil. Con., Air Force Reserve
Program and Financing (in Thousands of dollars) SUMMARY 03 JAN 90

Identification code 57-3730-0-1-051	Budget Plan (Amounts for MILITARY CONSTRUCTION actions programed) 1989 Act	1990 Est.	1991 Est.	Obligations 1989 Act	1990 Est.	1991 Est.
Program by activities:						
Direct program:						
00.0101 Major construction	60,525	32,585	32,976	64,563	36,015	34,409
00.0201 Minor construction	2,852	3,100	1,415	3,105	3,679	1,735
00.0301 Planning	7,223	10,526	3,309	7,178	9,242	3,987
10.0001 Total	70,600	46,200	37,700	74,846	48,936	40,131
Financing:						
17.020 RECOV PY BAL OP						
Unobligated balance available, start of year:						
21.4002 For completion of prior year budget plans				(19,471)	(14,899)	(12,183)
21.020 UNOB ST. NEWPLAN						
21.4007 Reprogramming from/to prior year budget plans	(328)					
23.4002 Reduction pursuant to P.L. 99-177 in unoblig bal: Apn						
Unobligated balance available, end of year:						
24.4002 For completion of prior year budget plans				14,899	12,183	9,732
25.010 LAPSE, U/BAL	328			328		
25.0001 Unobligated balance lapsing						
39.020 PAFC BOUNDS, OP						
40.0001 Budget authority (Appropriation)	70,600	46,200	37,700	70,600	46,200	37,700
Relation of obligations to outlays:						
72.110 UNPAID OB,SOY				75,428	82,887	84,823
71.0001 Obligations incurred, net				74,846	48,936	40,131
77.110 OBLIG ADJUSTMNT						
78.110 OBLIG ADJUSTMNT				105		
90.110 PAYMNT CY PROG				7,583	4,900	4,034
90.111 PAYMNT PY PROG				59,907	42,100	48,866
OUTLAYS				67,490	47,000	52,900
74.110 UNPAID OBL,EOY				82,887	84,823	52,054

Mil. Con., Air Force Reserve
Object Classification (in Thousands of dollars) SUMMARY

Identification code 57-3730-0-1-051	1989 Actual	1990 Est.	1991 Est.
Direct obligations:			
Other services:			
125.003 Contracts	434	478	252
132.001 Land and structures	4,300	5,330	2,443
199.001 Total Direct obligations	4,734	5,808	2,695
Allocation Accounts			
Other services:			
325.003 Contracts	6,733	8,783	3,730
332.001 Land and structures	63,360	34,344	33,706
399.001 Total Allocation Accounts	70,092	43,127	37,436
999.901 Total obligations	74,846	48,936	40,131
Obligations are distributed as follows:			
Defense - Military: Army	67,263	40,329	33,933
Defense - Military: Navy	2,829	2,798	3,503
Defense - Military: Air Force	4,754	5,809	2,695
Total Obligations	74,846	48,936	40,131

DEPARTMENT OF THE AIR FORCE
AIR FORCE RESERVE
MILITARY CONSTRUCTION PROGRAM - FY 1991

SPECIAL PROGRAM CONSIDERATIONS

Pollution Abatement

The military construction projects proposed in this program will be designed to meet environmental standards. Military construction projects proposed primarily for abatement of existing pollution problems at installations have been reviewed to ensure that corrective design is accomplished in accordance with specific standards and criteria.

Energy Conservation

Military construction projects specifically for energy conservation at installations have been developed, reviewed and selected with prioritization by energy savings per investment cost. Project include improvements to existing facilities and utilities systems to upgrade design, eliminate waste and install energy saving devices. Projects are designed for minimum energy consumption.

Floodplain Management and Wetlands Protection

Proposed land acquisitions, disposals and installation construction projects have been planned to allow the proper management of floodplains and protection of wetlands by avoiding long and short-term adverse impacts, reducing the risk of flood losses, and minimizing the loss or degradation of wetlands. Project planning is in accordance with the requirements of Executive Order Nos. 11988 and 11990.

Design for Accessibility of Physically Handicapped Personnel

In accordance with Public Law 90-400, provisions for physically handicapped personnel will be provided for, where appropriate, in the design of facilities included in this program.

Preservation of Historical Sites and Structures

Facilities included in this program do not directly or indirectly affect any district, site, building, structure, object or setting listed in the National Register of Historic Places, except as noted on DD Form 1391.

Environmental Protection

In accordance with Section 102(2)(c) of the National Environmental Policy Act of 1969 (PL 91-190), the environmental impact analysis process has been completed or is actively underway for all projects in the Military Construction Program.

SPECIAL PROGRAM CONSIDERATIONS (CONTINUED)

Economic Analysis

Economics are an inherent aspect of project development and design of military construction projects. Therefore, all projects included in this program represent the most economical use of resources.

Reserve Manpower Potential

The Reserve manpower potential to meet and maintain authorized strengths of all Reserve flying/non-flying units in those areas in which these facilities are to be located has been reviewed. It has been determined, in coordination with all other Services having Reserve flying/non-flying units in these areas, that the number of units of the Reserve components of the Armed Forces presently located in those areas, and those which have been allocated to the areas for future activation, is not and will not be larger than the number that reasonably can be expected to be maintained at authorized strength considering the number of persons living in the areas who are qualified for membership in those Reserve units.

Potential Use of Vacant Schools and Other State and Local Facilities

The potential use of vacant schools and other state and local owned facilities has been reviewed and analyzed for each facility to be constructed under this program.

Congressional Reporting Requirements

Page a-viii, titled "New Mission/Current Mission Listing", is in response to a Senate Appropriations Committee requirement contained on page 10 (New and Current Mission Activities) of Report #100-380.

Page b-vi, titled "Maintenance and Repair Budget Request", is in response to a Senate Appropriations Committee requirement contained on page 24 (Non-MILCON Construction Activities) of the Report #100-200 and page 1006 (Non-MILCON Construction Activities), Senate and House Conference Report #100-498. In response to another item of this reporting requirement, the Air Force Reserve has "no separate construction project to be accomplished with funds other than family housing and military construction."

Facility Planning and Design Guide

Unless otherwise noted, the projects comply with the scope and design criteria prescribed in Part II of Military Handbook 1190, "Facility Planning and Design Guide.

AIR FORCE RESERVE

FY 1991 OPERATION AND MAINTENANCE (O&M) COSTS

MAINTENANCE AND REPAIR BUDGET REQUEST

(DOLLARS IN THOUSANDS)

Functional Category of Work Functions	Civilian Personnel	Contracts	Others	Total
1. Maintenance & Repair				
a. Utilities	1,968	984	1,231	4,183
b. Other Real Property	5,327	8,117	1,847	15,291
(1) Buildings	3,692	6,608	1,287	11,587
(2) Other Facilities	190	248	103	541
(3) Pavements	629	1,171	349	2,149
(4) Land	816	90	108	1,014
(5) Railroad Trackage	-0-	-0-	-0-	-0-
TOTAL	7,295	9,101	3,078	19,474

2. Justification: Maintenance and Repair categories are avenues to accomplish work required in the day-to-day, periodic or scheduled care, upkeep, construction and improvements of real property facilities and systems at Air Force Reserve bases and for Air Force Reserve Units which are tenants on bases of other commands. The estimated costs for contracts are based on validated O&M facility projects which exceed a base in-house work force capability and are to be accomplished by contract.

SECTION II - Installation and Project Justification Data
DD Forms 1390S/1, 1390s/2, 1391 and 1391c

1. COMPONENT USAFR	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE 1 JAN 90
3. INSTALLATION AND LOCATION MAXWELL AIR FORCE BASE, ALABAMA		4. AREA CONSTR COST INDEX 0.90

5. FREQUENCY AND TYPE UTILIZATION

Facility is used daily. One unit training assembly per month, 15 days annual tour training per year.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS

4 Army National Guard Units
1 Air Force Installation (Gunter AFS)
1 Air National Guard Unit

7. PROJECTS REQUESTED IN THIS PROGRAM

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
218-852	Survival Equipment/ Life Support Shop	8,000 SF	1,025	05/89	06/90

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION

2 Dec 88
(Date)

Approved for unilateral construction.

9. LAND ACQUISITION REQUIRED

NONE
(Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

CAT CODE	PROJECT TITLE	SCOPE (SF)	COST ($000)	YEAR
NONE				

1. COMPONENT	FY 19_91 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE
USAFR		1 JAN 90

3. INSTALLATION AND LOCATION

MAXWELL AIR FORCE BASE, ALABAMA

11. PERSONNEL STRENGTH AS OF 30 Jun 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZED	9	0	0	9	504	97	407
ACTUAL	9	0	0	9	515	102	413

12. RESERVE UNIT DATA

UNIT DESIGNATION	STRENGTH AUTHORIZED	STRENGTH ACTUAL
908th Tactical Airlift Group	504	515

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ASSIGNED
C-130H	8	8

DD FORM MAY 78 1390s/2 REPLACES DD FORM 1390S, DEC 76, WHICH IS OBSOLETE. PAGE NO 2

Page 2 of 2

1 COMPONENT USAFR	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 1 JAN 90

3 INSTALLATION AND LOCATION MAXWELL AIR FORCE BASE, ALABAMA (AU)	4 PROJECT TITLE SURVIVAL EQUIPMENT/ LIFE SUPPORT SHOP

5 PROGRAM ELEMENT 55394F	6 CATEGORY CODE 218-852	7 PROJECT NUMBER PNQS 90-9001	8 PROJECT COST ($000) 1,025

9 COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
SURVIVAL EQUIPMENT/LIFE SUPPORT SHOP	SF	8,000	85.00	688
SUPPORTING FACILITIES				238
UTILITIES	LS			(62)
SITE IMPROVEMENTS	LS			(72)
PAVEMENTS	LS			(72)
DEMOLITION	LS			(19)
COMMUNICATIONS SUPPORT	LS			(13)
SUBTOTAL				926
CONTINGENCY (5%)				46
TOTAL CONTRACT COST				972
SUPERVISION, INSPECTION & OVERHEAD (5.5%)				53
TOTAL REQUEST				1,025
TOTAL REQUEST (ROUNDED)				1,025

10 DESCRIPTION OF PROPOSED CONSTRUCTION Reinforced concrete foundation and floor slab, steel frame, masonry walls, built-up roof on metal decking, insulated walls and roof. Includes training rooms, latrines, mechanical room, storage areas, administrative space, utilities and all necessary support. Air Conditioning: 20 Tons.

11. REQUIREMENT: 8,000 SF ADEQUATE: 0 SF SUBSTANDARD: 7,126 SF

PROJECT: Construct a survival equipment/life support facility. (Current Mission)

REQUIREMENT: A facility of adequate size and configuration with proper environmental controls is required to maintain aircrew survival and life support equipment such as parachutes, life rafts, helmets, oxygen masks and emergency kits.

CURRENT SITUATION: These functions are now being conducted in two separate facilities. The life support function is located in a facility constructed in 1934 as a flight lunch kitchen. It lacks proper environmental controls, is inefficiently configured, and cannot be effectively altered. The aircraft survival equipment function is temporarily located in a portion of a maintenance hangar and also lacks sufficient environmental controls to properly protect equipment and personnel. The dispersed nature of the activities, coupled with poorly configured space, adversely impact the efficiency and effectiveness of these essential mission support activities. This project will permit the disposal of one substandard building.

IMPACT IF NOT PROVIDED: Without this project, these activities will continue at greatly reduced effectiveness and efficiency in supporting the flying mission.

GPO : 1985 O - 478-508

1. COMPONENT USAFR	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 1 JAN 90
3. INSTALLATION AND LOCATION MAXWELL AIR FORCE BASE, ALABAMA		
4. PROJECT TITLE SURVIVAL EQUIPMENT/LIFE SUPPORT SHOP		5. PROJECT NUMBER PNQS 90-9001

12. SUPPLEMENTAL DATA:

A. DESIGN DATA (Estimated)

1. STATUS

a. Date Design Started .... MAY 89

b. Percent Complete as of January 1, 1990.......... 45

c. Date Design Expected to be 35% Complete.......... NOV 89

d. Date Design Complete .... JUN 90

2. BASIS

a. Standard or Definitive Design - Yes____ No X

b. Where Design Was Most Recently Used____________

3. COST (Total) = c = a+b or d+e (\$000)

a. Production of Plans and Specifications ....(0)

b. All Other Design Costs.................................(0)

c. Total..(105)

d. Contract...(75)

e. In-house...(30)

4. CONSTRUCTION START................................ APR 91 (month and year)

B. EQUIPMENT ASSOCIATED WITH THIS PROJECT WHICH WILL BE PROVIDED FROM OTHER APPROPRIATIONS:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost (\$000)
NONE			

1. COMPONENT	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE
USAFR		1 JAN 90

3. INSTALLATION AND LOCATION	4. AREA CONSTR COST INDEX
DAVIS-MONTHAN AIR FORCE BASE, ARIZONA	1.00

5. FREQUENCY AND TYPE UTILIZATION

Facility is used daily. Unit training assembly is two days per month and field training is conducted fifteen days per year.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS

1 Army Guard Unit
1 Army Reserve Unit
1 Navy/Marine Reserve Training Center
2 Air Force Reserve Units

7. PROJECTS REQUESTED IN THIS PROGRAM

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
171-443	Civil Engineering Training Facility	6,600 SF	900	05/89	04/90

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION 22 June 1988 (Date)

Approved for unilateral construction.

9. LAND ACQUISITION REQUIRED NONE (Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

CAT CODE	PROJECT TITLE	SCOPE (SY)	COST ($000)	YEAR
	NONE			

1. COMPONENT USAFR	FY 19 91 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE 1 JAN 90

3. INSTALLATION AND LOCATION
DAVIS-MONTHAN AIR FORCE BASE, ARIZONA

11. PERSONNEL STRENGTH AS OF 30 Jun 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZED	2	0	0	2	128	6	122
ACTUAL	2	0	0	2	125	6	119

12. RESERVE UNIT DATA

	STRENGTH	
UNIT DESIGNATION	AUTHORIZED	ACTUAL
923rd Civil Engineering Squadron	128	125

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ASSIGNED
CH/HH-3	5	5

1 COMPONENT	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2 DATE
USAFR		1 JAN 90

3 INSTALLATION AND LOCATION	4 PROJECT TITLE
DAVIS-MONTHAN AIR FORCE BASE, ARIZONA (TAC)	CIVIL ENGINEERING TRAINING FACILITY

5 PROGRAM ELEMENT	6 CATEGORY CODE	7 PROJECT NUMBER	8 PROJECT COST ($000)
55394F	171-443	FBNV 91-9001	900

9 COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
CIVIL ENGINEERING TRAINING FACILITY	SF	6,600	96.00	634
SUPPORTING FACILITIES				175
UTILITIES	LS			(68)
SITE IMPROVEMENTS	LS			(15)
PAVEMENTS	LS			(85)
LANDSCAPING	LS			(7)
SUBTOTAL				809
CONTINGENCY (5%)				40
TOTAL CONTRACT COST				849
SUPERVISION, INSPECTION & OVERHEAD (5.5%)				47
TOTAL REQUEST				896
TOTAL REQUEST (ROUNDED)				900

10 DESCRIPTION OF PROPOSED CONSTRUCTION Construct a 6600 SF Civil Engineering Reserve Training Facility to meet training and administrative requirements. This facility will consist of reinforced concrete foundation and floor slab, split-face, fluted masonry walls, and built-up roof. Air conditioning, heating, fire detection and protection systems and EMCS connections are included. Work also includes all support utilities and pavements. Air Conditioning: 25 Tons

11. REQUIREMENT: 6,600 SF ADEQUATE: 0 SF SUBSTANDARD: 2,700 SF

PROJECT: Construct Reserve Civil Engineering Training Facility. (Current Mission)

REQUIREMENT: The 923rd Civil Engineering Squadron requires adequate facilities to train 128 personnel. Adequate facilities of proper configuration are required to include training classrooms, mobility storage, operations area, and office and administrative areas.

CURRENT SITUATION: The Reserve training is presently accomplished in approximately 2700 SF of Buildings 5122 and 5125, temporary areas provided by the host that are crowded and poorly arranged for functional utility.

IMPACT IF NOT PROVIDED: If adequate facilities are not provided the unit will lack the space and organizational areas necessary for training. The training environment will remain inefficient and unit readiness will be adversely affected.

1 COMPONENT
USAFR

FY 1991 MILITARY CONSTRUCTION PROJECT DATA

2 DATE
1 JAN 90

3 INSTALLATION AND LOCATION
DAVIS-MONTHAN AIR FORCE BASE, ARIZONA

4 PROJECT TITLE
CIVIL ENGINEERING TRAINING FACILITY

5 PROJECT NUMBER
FBNV 91-9001

12. SUPPLEMENTAL DATA:

A. DESIGN DATA (Estimated)

1. STATUS

a. Date Design Started .... MAY 89

b. Percent Complete as of January 1, 1990........... 65

c. Date Design Expected to be 35% Complete.......... AUG 89

d. Date Design Complete .... APR 90

2. BASIS

a. Standard or Definitive Design - Yes____ No X
b. Where Design Was Most Recently Used________

3. COST (Total) = c = a+b or d+e ($000)

a. Production of Plans and Specifications ....(0)
b. All Other Design Costs.................................(0)
c. Total..(100)
d. Contract..(66)
e. In-house...(34)

4. CONSTRUCTION START.................................. APR 91
(month and year)

B. EQUIPMENT ASSOCIATED WITH THIS PROJECT WHICH WILL BE PROVIDED FROM OTHER APPROPRIATIONS:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
NONE			

DD FORM 1 DEC 76 1391c PREVIOUS EDITION IS OBSOLETE IN THE USAF.

1. COMPONENT USAFR	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE 1 JAN 90
3. INSTALLATION AND LOCATION LOWRY AIR FORCE BASE, COLORADO		4. AREA CONSTR COST INDEX .97

5. FREQUENCY AND TYPE UTILIZATION

Facility is used daily. Unit training assemblies are two days per month and field training is conducted fifteen days per year.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS

1 Air National Guard Base
1 Army National Guard Unit

7. PROJECTS REQUESTED IN THIS PROGRAM

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
171-443	Civil Engineering Training Facility	6,600 SF	900	04/89	02/90

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION

Approval for unilateral construction pending.

Apr 90
(Date)

9. LAND ACQUISITION REQUIRED

NONE
(Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

CAT CODE	PROJECT TITLE	SCOPE (SF)	COST ($000)	YEAR
NONE				

1. COMPONENT USAFR	FY 19 91 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE 1 JAN 90

3. INSTALLATION AND LOCATION
LOWRY AIR FORCE BASE, COLORADO

11. PERSONNEL STRENGTH AS OF 30 JUN 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZED	2	0	0	2	112	6	106
ACTUAL	2	0	0	2	119	7	112

12. RESERVE UNIT DATA

	STRENGTH	
UNIT DESIGNATION	AUTHORIZED	ACTUAL
929th Civil Engineering Squadron	112	119

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ASSIGNED
NONE		

DD FORM MAY 78 1390s/2 REPLACES DD FORM 1390S, DEC 76, WHICH IS OBSOLETE.

Page 2 of 2

1 COMPONENT USAFR	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 1 JAN 90

3 INSTALLATION AND LOCATION LOWRY AIR FORCE BASE, COLORADO (ATC)	4 PROJECT TITLE CIVIL ENGINEERING TRAINING FACILITY

5 PROGRAM ELEMENT 55394F	6 CATEGORY CODE 171-443	7 PROJECT NUMBER NTMU 90-9001	8 PROJECT COST ($000) 900

9 COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
CIVIL ENGINEERING TRAINING FACILITY	SF	6,600	98.00	647
SUPPORTING FACILITIES				165
ELECTRICAL	LS			(65)
UTILITIES	LS			(19)
SITE IMPROVEMENTS	LS			(13)
PAVEMENTS	LS			(68)
SUBTOTAL				812
CONTINGENCY (5%)				41
TOTAL CONTRACT COST				853
SUPERVISION, INSPECTION AND OVERHEAD (5.5%)				47
TOTAL REQUEST				900
TOTAL REQUEST (ROUNDED)				900

10 DESCRIPTION OF PROPOSED CONSTRUCTION This facility will consist of reinforced concrete foundation and floor slab, and masonry walls. Areas will include training, storage areas, offices, and latrines. Heating, air conditioning, fire detection and protection systems are included. Work also includes all support utilities and pavements.

Air Conditioning: 18 Tons.

11. REQUIREMENT: 6,600 SF ADEQUATE: 0 SF SUBSTANDARD: 5,000 SF

PROJECT: Construct a Reserve Civil Engineering Training Facility. (Current Mission)

REQUIREMENT: An adequately sized and properly configured facility is required to support the 929th Civil Engineering Squadron. Requirements exist for classroom training, mobility storage, operations, and administrative space.

CURRENT SITUATION: The unit is presently located in a World World II era wooden structure. Over 50% of the space is shared with the host Base Civil Engineering Squadron. Limited storage space is available within the facility and insufficient space is available for training and unit administration. One room is used for assembling, processing, and training.

IMPACT IF NOT PROVIDED: Failure to provide an adequate training facility will adversely impact unit readiness and limit mission capability. Processing and deployment would be accomplished under difficult conditions.

PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED

GPO : 1985 O - 478-508

1 COMPONENT USAFR	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 1 JAN 90

3 INSTALLATION AND LOCATION

LOWRY AIR FORCE BASE, COLORADO

4 PROJECT TITLE

CIVIL ENGINEERING TRAINING FACILITY

5 PROJECT NUMBER

NTMU 90-9001

12. SUPPLEMENTAL DATA:

A. DESIGN DATA (Estimated)

1. STATUS

a. Date Design Started .... APR 89

b. Percent Complete as of January 1, 1990........... 65

c. Date Design Expected to be 35% Complete.......... OCT 89

d. Date Design Complete .... FEB 90

2. BASIS

a. Standard or Definitive Design - Yes_____ No X

b. Where Design Was Most Recently Used________________

3. COST (Total) : c = a+b or d+e ($000)

a. Production of Plans and Specifications ....(0)

b. All Other Design Costs.............................(0)

c. Total..(100)

d. Contract...(65)

e. In-house...(35)

4. CONSTRUCTION START.............................. MAR 91 (month and year)

B. EQUIPMENT ASSOCIATED WITH THIS PROJECT WHICH WILL BE PROVIDED FROM OTHER APPROPRIATIONS:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
NONE			

DD FORM 1 DEC 76 1391c PREVIOUS EDITION IS OBSOLETE IN THE USAF.

GPO : 1985 O - 482-236

1. COMPONENT USAFR	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE 1 JAN 90
3. INSTALLATION AND LOCATION EGLIN AIR FORCE BASE, AUXILIARY FIELD 3, FLORIDA		4. AREA CONSTR COST INDEX 0.82

5. FREQUENCY AND TYPE UTILIZATION

Facility is used daily. Unit training assemblies are two days per month and field training is conducted fifteen days per year.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS

None

7. PROJECTS REQUESTED IN THIS PROGRAM

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
171-450	Medical Training Facility	10,400 SF	1,600	06/89	06/90

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION

Approved for unilateral construction.

11 Jan 89
(Date)

9. LAND ACQUISITION REQUIRED

NONE
(Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

NONE

1 COMPONENT USAFR	FY 19 91 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE 1 JAN 90

3. INSTALLATION AND LOCATION

EGLIN AIR FORCE BASE, AUXILIARY FIELD 3, FLORIDA

11 PERSONNEL STRENGTH AS OF 30 Jun 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZED	2	0	0	2	47	15	32
ACTUAL	2	0	0	2	46	15	31

12. RESERVE UNIT DATA

UNIT DESIGNATION	STRENGTH AUTHORIZED	STRENGTH ACTUAL
919th Tactical Hospital	47	46

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ASSIGNED
AC-130A	9	10

DD FORM MAY 78 1390s/2 EPLACES DD FORM 1390S, DEC 76, WHICH IS OBSOLETE.

Page 2 of 2

1 COMPONENT USAFR	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 1 JAN 90

3 INSTALLATION AND LOCATION EGLIN AIR FORCE BASE, AUXILIARY FIELD 3, FLORIDA (AFSC)	4 PROJECT TITLE MEDICAL TRAINING FACILITY

5 PROGRAM ELEMENT 55394F	6 CATEGORY CODE 171-450	7 PROJECT NUMBER FTFA 91-9001	8 PROJECT COST ($000) 1,600

9 COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
MEDICAL TRAINING FACILITY	SF	10,400	115.00	1,196
SUPPORTING FACILITIES				240
ELECTRIC	LS			(50)
WATER AND SANITARY SEWER	LS			(30)
SITE IMPROVEMENT	LS			(70)
RELOCATE FENCE	LF	450	22.00	(10)
PARKING AND WALKS	LS			(40)
COMMUNICATIONS SUPPORT	LS			(40)
SUBTOTAL				1,436
CONTINGENCY (5%)				79
TOTAL CONTRACT COST				1,515
SUPERVISION, INSPECTION, & OVERHEAD (5.5%)				83
TOTAL REQUEST				1,598
TOTAL REQUEST (ROUNDED)				1,600
EQUIP FROM OTHER APPROPRIATIONS (3740)		(NON-ADD)		(375)

10 DESCRIPTION OF PROPOSED CONSTRUCTION Reinforced concrete foundation and floor slab, structural steel frame, brick veneer exterior, and insulated, sloped roof. Involves relocating a chain link fence and replacing a small storage building. Also includes supporting utilities, pavements, and 50-car parking lot. Air Conditioning: 35 Tons.

11. REQUIREMENT: 10,400 SF ADEQUATE: 0 SF SUBSTANDARD: 5,930 SF

PROJECT: Construct a training facility for the 919th Tactical Hospital. (Current Mission)

REQUIREMENT: An adequately sized and functionally arranged facility is needed to provide appropriate training, administrative, and functional space to train assigned medical personnel in their wartime mission. Additionally, the unit provides non-theraputic medical services (medical and dental exams, records management and storage, laboratories, X-ray, etc) to all personnel of the 919th Special Operations Group.

CURRENT SITUATION: The existing training space is located in a wing of the squadron operations facility in an area that is grossly inadequate for the unit mission. The resulting congestion is detrimental to Reserve training. The alternative of borrowing exam space in the AF Regional Hospital at Eglin is burdensome due to time lost in transporting personnel and equipment (40 mile round trip). The vacated space will be used to satisfy the space deficiency of the flying squadron.

IMPACT IF NOT PROVIDED: The ability of the 919th Tactical Hospital to train for its wartime mission will be compromised. Peacetime medical services to the 919th SOG will remain inefficient.

ADDITIONAL: This project is a candidate for comprehensive interior design(CID).

GPO : 1985 O - 478-508

1 COMPONENT USAFR	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 1 JAN 90
3 INSTALLATION AND LOCATION EGLIN AIR FORCE BASE, AUXILIARY FIELD 3, FLORIDA		
4 PROJECT TITLE MEDICAL TRAINING FACILITY		5 PROJECT NUMBER FTFA 91-9001

12. SUPPLEMENTAL DATA:

A. DESIGN DATA (Estimated)

1. STATUS

a. Date Design Started .... JUN 89

b. Percent Complete as of January 1, 1990........... 45

c. Date Design Expected to be 35% Complete.......... NOV 89

d. Date Design Complete .... JUN 90

2. BASIS

a. Standard or Definitive Design - Yes____ No X
b. Where Design Was Most Recently Used________

3. COST (Total) = c = a+b or d+e ($000)

a. Production of Plans and Specifications ....(0)
b. All Other Design Costs.............................(0)
c. Total..(166)
d. Contract...(108)
e. In-house...(58)

4. CONSTRUCTION START.................................. JAN 91
(month and year)

B. EQUIPMENT ASSOCIATED WITH THIS PROJECT WHICH WILL BE PROVIDED FROM OTHER APPROPRIATIONS:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Medical Equipment and Supplies	3740	91	375

DD FORM 1 DEC 76 1391c PREVIOUS EDITION IS OBSOLETE IN THE USAF.

GPO : 1985 O - 482-236

1. COMPONENT USAFR	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE 1 JAN 90
3. INSTALLATION AND LOCATION HOMESTEAD AIR FORCE BASE, FLORIDA		4. AREA CONSTR COST INDEX 0.96

5. FREQUENCY AND TYPE UTILIZATION

Facility is used daily. Unit training assemblies are four days per month and field training is conducted fifteen days per year.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS

1 Army Guard unit

7. PROJECTS REQUESTED IN THIS PROGRAM

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
880-232	Add Fire Protection, Aircraft Hangars	LS	2,400	02/89	08/90

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION

Approval for unilateral construction pending.

Jan 90
(Date)

9. LAND ACQUISITION REQUIRED

NONE
(Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

CAT CODE	PROJECT TITLE	SCOPE (SF)	COST ($000)	YEAR
141-753	Pararescue Operations	8,000	1,300	93

DD FORM 1 MAY 78 1390S/1 Page 1 of 2 PAGE NO 17

1. COMPONENT	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE
USAFR		1 JAN 90

3. INSTALLATION AND LOCATION

HOMESTEAD AIR FORCE BASE, FLORIDA

11. PERSONNEL STRENGTH AS OF 30 JUN 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZED	201	0	0	201	563	11	552
ACTUAL	201	0	0	201	580	12	568

12. RESERVE UNIT DATA

UNIT DESIGNATION	STRENGTH AUTHORIZED	STRENGTH ACTUAL
482nd Consolidated Aircraft Maintenance Squadron	563	580

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ASSIGNED
F-16A/B	18	18

1 COMPONENT USAFR	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 1 JAN 90

3 INSTALLATION AND LOCATION HOMESTEAD AIR FORCE BASE, FLORIDA (TAC)	4 PROJECT TITLE ADD FIRE PROTECTION, AIRCRAFT HANGARS

5 PROGRAM ELEMENT 55394F	6 CATEGORY CODE 880-232	7 PROJECT NUMBER KYJL 90-9003	8 PROJECT COST ($000) 2,400

9 COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ADD FIRE PROTECTION, AIRCRAFT HANGARS	LS			2,068
FIRE PROTECTION, HANGAR 194	SF	(21,600)	22.50	(486)
FIRE PROTECTION, HANGAR 200	SF	(26,400)	26.00	(686)
WATER MAIN (16")	LF	(2,000)	12.20	(244)
WATER MAIN CONNECTIONS	LS			(12)
PUMPHOUSE, PUMPS & EQUIPMENT	LS			(200)
WATER STORAGE TANKS	LS			(120)
ELECTRICAL	LS			(120)
DISCHARGE CONTAINMENT	LS			(200)
SUBTOTAL				2,068
CONTINGENCY (10%)				207
TOTAL CONTRACT COST				2,275
SUPERVISION, INSPECTION AND OVERHEAD (5.5%)				125
TOTAL REQUEST				2,400
TOTAL REQUEST (ROUNDED)				2,400

10 DESCRIPTION OF PROPOSED CONSTRUCTION Install underwing aqueous film-forming foam (AFFF) fire suppression systems in hangar bays, (buildings 194 and 200) and wet pipe sprinkler systems in the administrative offices and shops. Includes infrared and ultraviolet sensors, alarms and signals to fire department, camera monitor system, and an environmentally approved collection system. Water mains and a water storage tank to ensure sufficient water volume will be constructed. Pumps will be contained in separate pumphouses. Water main connections for two other facilities will also be made.

11. REQUIREMENT: 2 EA ADEQUATE: 0 SUBSTANDARD: 2 EA

PROJECT: Installation of AFFF and wet pipe fire suppression systems in two aircraft maintenance hangars. (Current Mission)

REQUIREMENT: Fire suppression systems are required to correct fire safety and health hazards, to ensure a safe environment, and to protect high-value aircraft.

CURRENT SITUATION: F-16 aircraft are at risk during hangar maintenance operations. Both hangars, which house up to five F-16 aircraft, lack adequate fire detection and protection. Portable cart and hand extinguishers provide the only fire suppression capability. All other maintenance hangars on base have been retrofitted with this system to safeguard the Air Force's investment in aircraft, personnel, and facilities.

IMPACT IF NOT PROVIDED: The potential for catastrophic loss of life, aircraft and equipment will continue to exist.

1 COMPONENT	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2 DATE
USAFR		1 JAN 90

3 INSTALLATION AND LOCATION

HOMESTEAD AIR FORCE BASE, FLORIDA

4 PROJECT TITLE	5 PROJECT NUMBER
ADD FIRE PROTECTION, AIRCRAFT HANGARS	KYJL 90-9003

12. SUPPLEMENTAL DATA:

A. DESIGN DATA (Estimated)

1. STATUS

a. Date Design Started .... FEB 89

b. Percent Complete as of January 1, 1990........... 35

c. Date Design Expected to be 35% Complete.......... DEC 89

d. Date Design Complete .... AUG 90

2. BASIS

a. Standard or Definitive Design - Yes____ No X
b. Where Design Was Most Recently Used________

3. COST (Total) = c = a+b or d+e ($000)

a. Production of Plans and Specifications ....(0)
b. All Other Design Costs.............................(0)
c. Total..(253)
d. Contract...(151)
e. In-house...(102)

4. CONSTRUCTION START................................ JAN 91
(month and year)

B. EQUIPMENT ASSOCIATED WITH THIS PROJECT WHICH WILL BE PROVIDED FROM OTHER APPROPRIATIONS:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
NONE			

1. COMPONENT USAFR	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE 1 JAN 90
3. INSTALLATION AND LOCATION DOBBINS AIR FORCE BASE, GEORGIA		4. AREA CONSTR COST INDEX 0.86

5. FREQUENCY AND TYPE UTILIZATION

Facility is used daily. Unit training assemblies are four days per month and field training is conducted fifteen days per year.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS

2 Army Installations
1 Naval Air Station
1 Air National Guard Unit

7. PROJECTS REQUESTED IN THIS PROGRAM

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
171-445	Readiness Addition 14th AF Headquarters	LS	2,900	04/88	12/89

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION

Approved for unilateral construction.

28 Nov 88
(Date)

9. LAND ACQUISITION REQUIRED

NONE
(Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

CAT CODE	PROJECT TITLE	SCOPE (SF)	COST ($000)	YEAR
219-944	Base Civil Engineering Complex	30,000	3,400	92
730-835	Security Police Ops(w/ANG)	LS	360	93
179-475	Base Firing Range	LS	1,400	94

1. COMPONENT USAFR	FY 19 91 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE 1 JAN 90

3. INSTALLATION AND LOCATION
DOBBINS AIR FORCE BASE, GEORGIA

11. PERSONNEL STRENGTH AS OF 30 Jun 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZED	71	0	0	71	198	93	105
ACTUAL	71	0	0	71	199	87	112

12. RESERVE UNIT DATA

	STRENGTH	
UNIT DESIGNATION	AUTHORIZED	ACTUAL
14AF Numbered AF Headquarters	167	168
14AF Civil Engineering Flight	31	31
TOTAL	198	199

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ASSIGNED
C-130H	8	8

1 COMPONENT USAFR	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 1 JAN 90

3 INSTALLATION AND LOCATION DOBBINS AIR FORCE BASE, GEORGIA	4 PROJECT TITLE READINESS ADDITION, 14TH AF HEADQUARTERS

5 PROGRAM ELEMENT 55394F	6 CATEGORY CODE 171-445	7 PROJECT NUMBER FGWB 86-9004	8 PROJECT COST ($000) 2,900

9 COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
READINESS ADDITION, 14TH AF HEADQUARTERS	LS			1,997
ADMINISTRATIVE	SF	16,200	94.00	(1,523)
CONTINGENCY EQUIPMENT	SF	1,600	94.00	(150)
MOBILITY STORAGE	SF	2,400	94.00	(226)
EXTERIOR TREATMENT	LF	8,900	11.00	(98)
SUPPORTING FACILITIES				602
UTILITIES RELOCATION	LS			(122)
SITE IMPROVEMENTS	LS			(132)
PAVING	SY	2,000	24.50	(49)
PASSIVE SOLAR	LD	7,200	4.00	(29)
PREWIRED WORK STATIONS	EA	75	3,600	(270)
SUBTOTAL				2,599
CONTINGENCY (5%)				130
TOTAL CONTRACT COST				2,729
SUPERVISION, INSPECTION AND OVERHEAD (5.5%)				150
TOTAL REQUEST				2,879
TOTAL REQUEST (ROUNDED)				2,900

10 DESCRIPTION OF PROPOSED CONSTRUCTION Concrete foundation and floor slabs, exterior doors/windows/masonry walls to match existing facility, built-up roof. Demolish building 556(1,249 SF). Air Conditioning: 24 Tons

11. REQUIREMENT: 57,800 SF ADEQUATE: 37,600 SF SUBSTANDARD: 1,249 SF

PROJECT: Construct a 20,200 SF addition to the existing 14th Air Force Headquarters(HQ 14AF) facility. (New Mission)

REQUIREMENT: Space is needed for a centralized command and control training facility, storage for the Military Airlift Command's Command and Control Upgrade Program shelters, increased mobility equipment, and training and management functions of the 14th Civil Engineering Flight.

CURRENT SITUATION: Adequate space for training is not available. HQ 14AF is tasked to mobilize and deploy as an in-theatre Airlift Division. This requires operating with specialized contingency equipment such as improved communications sets and transportable shelters provided by MAC under their Command and Control Upgrade Program. Limited funding precludes furnishing equipment to each Reserve flying squadron. Centralization of training within 14th AF is needed for maximum effectiveness. A Command and Control Training Facility is needed for continuing proficiency training utilizing the expanded shelters to simulate a deployed airlift control center environment. The existing substandard storage facility will be demolished.

IMPACT IF NOT PROVIDED: Without a centralized Command and Control Training Facility, the ability of 14th AF to fulfill its wartime in-theatre Airlift Division tasking will be seriously degraded. Adequate storage space for specialized mobility equipment will not be available.

ADDITIONAL: This project is a candidate for comprehensive interior design (CID).

GPO : 1985 O - 478-508

1 COMPONENT USAFR	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 1 JAN 90
3 INSTALLATION AND LOCATION DOBBINS AIR FORCE BASE, GEORGIA		
4 PROJECT TITLE READINESS ADDITION, 14TH AF HEADQUARTERS		5 PROJECT NUMBER FGWB 86-9004

12. SUPPLEMENTAL DATA:

A. DESIGN DATA (Estimated)

1. STATUS

a. Date Design Started .... APR 88

b. Percent Complete as of January 1, 1990........... 100

c. Date Design Expected to be 35% Complete.......... MAR 89

d. Date Design Complete .... DEC 89

2. BASIS

a. Standard or Definitive Design - Yes ____ No X
b. Where Design Was Most Recently Used __________

3. COST (Total) = c = a+b or d+e ($000)

a. Production of Plans and Specifications ....(0)
b. All Other Design Costs.............................(0)
c. Total..(300)
d. Contract...(180)
e. In-house...(120)

4. CONSTRUCTION START.............................. JAN 91
(month and year)

B. EQUIPMENT ASSOCIATED WITH THIS PROJECT WHICH WILL BE PROVIDED FROM OTHER APPROPRIATIONS:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
NONE			

1. COMPONENT USAFR	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE 1 JAN 90
3. INSTALLATION AND LOCATION HICKAM AIR FORCE BASE, HAWAII		4. AREA CONSTR COST INDEX 1.39

5. FREQUENCY AND TYPE UTILIZATION

Facility is used daily. Unit training assemblies are four days per month and field training is conducted fifteen days per year.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS

1 Air National Guard Unit
2 Air Force Reserve Units
1 Naval Reserve Unit
2 Army Reserve Units
1 Coast Guard Reserve Unit

7. PROJECTS REQUESTED IN THIS PROGRAM

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
171-873	Aerial Port Training Facility	6,200 SF	1,200	07/88	02/90

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION

Approved for unilateral construction.

April 1989
(Date)

9. LAND ACQUISITION REQUIRED

NONE
(Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

CAT CODE	PROJECT TITLE	SCOPE (SF)	COST ($000)	YEAR
	NONE			

1 COMPONENT USAFR	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE 1 JAN 90

3 INSTALLATION AND LOCATION

HICKAM AIR FORCE BASE, HAWAII

11 PERSONNEL STRENGTH AS OF 30 Jun 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZED	3	0	0	3	283	8	275
ACTUAL	3	0	0	3	244	7	237

12 RESERVE UNIT DATA

UNIT DESIGNATION	STRENGTH AUTHORIZED	STRENGTH ACTUAL
48th Aerial Port Squadron	145	128
65th Aerial Port Squadron	138	116
TOTAL	283	244

13 MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ASSIGNED
NONE		

DD FORM MAY 78 1390s/2 REPLACES DD FORM 1390S, DEC 76, WHICH IS OBSOLETE.

Page 2 of 2

1 COMPONENT USAFR	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 1 JAN 90

3 INSTALLATION AND LOCATION HICKAM AIR FORCE BASE, HAWAII (PACAF)	4 PROJECT TITLE AERIAL PORT TRAINING FACILITY

5 PROGRAM ELEMENT 55394F	6 CATEGORY CODE 171-873	7 PROJECT NUMBER KNMD 90-9001	8 PROJECT COST ($000) 1,200

9 COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
AERIAL PORT TRAINING FACILITY	SF	6,200	130.00	806
SUPPORTING FACILITIES				266
UTILITIES	LS			(94)
PREWIRING	SF	5,500	5.30	(29)
SITE IMPROVEMENTS	LS			(65)
ROADS, PARKING AND WALKS	LS			(78)
SUBTOTAL				1,072
CONTINGENCY (5%)				54
TOTAL CONTRACT COST				1,126
SUPERVISION, INSPECTION AND OVERHEAD (5.5%)				62
TOTAL REQUEST				1,188
TOTAL REQUEST (ROUNDED)				1,200

10 DESCRIPTION OF PROPOSED CONSTRUCTION Single story facility using masonry walls, concrete foundation and floor slab; asphaltic concrete driveway and parking lot; concrete sidewalk; backfill/topsoil to grade; landscaping and related site improvements, and all supporting utilities.

Air Conditioning: 25 Tons

11. REQUIREMENT: 6,200 SF ADEQUATE: 0 SF SUBSTANDARD: 2,800 SF

PROJECT: Construct Aerial Port Training Facility sited next to the base air frieght terminal. (Current Mission)

REQUIREMENT: A facility to adequately support mission requirements of colocated Aerial Port Squadrons. This facility is needed to accommodate the classroom training needs of the assigned squadrons as well as supporting command/administrative functions.

CURRENT SITUATION: The 48th and 65th Aerial Port Squadrons, consisting of 283 persons, currently share 2,800 SF of classroom and command/administrative space in the host's air freight terminal. Crowded conditions during their separate training assemblies hamper effective training which adversely impacts each unit's mission capability. Mass training must be conducted in another area of the base. The vacated space will be returned to the host. The unit will continue joint use of the host's air freight terminal for "hands on" training.

IMPACT IF NOT PROVIDED: Substandard training facilities will continue to hinder effective training, which adversely impacts the unit's mission capability and lowers morale, productivity and job satisfaction of reserve personnel. Ultimately, this will impair the unit's ability to fully augment the active force under activation conditions.

1 COMPONENT USAFR	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 1 JAN 90
3 INSTALLATION AND LOCATION HICKAM AIR FORCE BASE, HAWAII		
4 PROJECT TITLE AERIAL PORT TRAINING FACILITY		5 PROJECT NUMBER KNMD 90-9001

12. SUPPLEMENTAL DATA:

A. DESIGN DATA (Estimated)

1. STATUS

a. Date Design Started .... JUL 88

b. Percent Complete as of January 1, 1990........... 95

c. Date Design Expected to be 35% Complete.......... DEC 88

d. Date Design Complete .... FEB 90

2. BASIS

a. Standard or Definitive Design - Yes____ No X
b. Where Design Was Most Recently Used__________

3. COST (Total) = c = a+b or d+e (\$000)

a. Production of Plans and Specifications ....(0)
b. All Other Design Costs..............................(0)
c. Total...(109)
d. Contract..(0)
e. In-house..(109)

4. CONSTRUCTION START.............................. APR 91
(month and year)

B. EQUIPMENT ASSOCIATED WITH THIS PROJECT WHICH WILL BE PROVIDED FROM OTHER APPROPRIATIONS:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
NONE			

1. COMPONENT	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE
USAFR		1 JAN 90

3. INSTALLATION AND LOCATION	4. AREA CONSTR COST INDEX
O'HARE AIR RESERVE FORCES FACILITY, ILLINOIS	1.06

5. FREQUENCY AND TYPE UTILIZATION

Facility is used daily. Unit training assemblies are four days per month and field training is conducted fifteen days per year.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS

1 Air National Guard Unit
1 Naval Reserve Unit
1 Defense Supply Agency(DCASR)

7. PROJECTS REQUESTED IN THIS PROGRAM

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
730-835	Security Police Operations Facility	5,400 SF	1,080	06/89	05/90

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION

Approved for unilateral construction.

16 MAR 88
(Date)

9. LAND ACQUISITION REQUIRED

NONE
(Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

CAT CODE	PROJECT TITLE	SCOPE (SF)	COST ($000)	YEAR
218-712	Age Shop/Storage	7,200	1,250	92
841-427	Water Storage/Pumps	LS	2,450	93

1. COMPONENT USAFR	FY 19 91 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE 1 JAN 90

3. INSTALLATION AND LOCATION

O'HARE AIR RESERVE FORCES FACILITY, ILLINOIS

11. PERSONNEL STRENGTH AS OF 30 Jun 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZED	388	0	0	388	579	107	472
ACTUAL	390	0	0	390	646	121	525

12. RESERVE UNIT DATA

UNIT DESIGNATION	STRENGTH AUTHORIZED	STRENGTH ACTUAL
928th Weapons System Security Flight	57	56
928th Tactical Airlift Group	522	590
	579	646

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ASSIGNED
C-130H	8	8

1 COMPONENT USAFR	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 1 JAN 90

3 INSTALLATION AND LOCATION O'HARE AIR RESERVE FORCES FACILITY, ILLINOIS	4 PROJECT TITLE SECURITY POLICE OPERATIONS FACILITY

5 PROGRAM ELEMENT 55394F	6 CATEGORY CODE 730-835	7 PROJECT NUMBER DPNB 90-9000	8 PROJECT COST ($000) 1,080

9 COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
SECURITY POLICE OPERATIONS	SF	5,400	110.00	594
SUPPORTING FACILITIES				377
UTILITIES	LS			(114)
PREWIRING	LS			(36)
PAVEMENTS	LS			(191)
SITE IMPROVEMENT	LS			(36)
SUBTOTAL				971
CONTINGENCY (5%)				49
TOTAL CONTRACT COST				1,020
SUPERVISION, INSPECTION AND OVERHEAD (5.5%)				56
TOTAL REQUEST				1,076
TOTAL REQUEST (ROUNDED)				1,080

10 DESCRIPTION OF PROPOSED CONSTRUCTION Masonry with brick veneer, slab on grade, built-up roof, reinforced weapons storage vault. Air Conditioning: 15 Tons.

11. REQUIREMENT: 5,400 SF ADEQUATE: 0 SF SUBSTANDARD: 3,163 SF

PROJECT: Construct a new 928th Security Police Squadron (SPS) operations facility to include law enforcement, pass/identification, armory, training, administration, and locker room functions. Project includes parking areas inside and outside of the base perimeter security fence. (Current Mission)

REQUIREMENT: Provide a facility to train reserve security police specialists and to provide operational areas required to support the base security requirements.

CURRENT SITUATION: Present area is located within the existing headquarters building. This space is inadequate due to mission growth and cannot be expanded. Geographic separation of the SPS operations (including the Visitor's Pass/ID) from the main gate creates severe control problems.

IMPACT IF NOT PROVIDED: Continued inadequate space will degrade the quality of training and will impact the unit's ability to perform its mission. Geographic separation of the main entry point from the visitor's control function will continue to create serious security problems and waste resources.

1. COMPONENT USAFR	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 1 JAN 90
3. INSTALLATION AND LOCATION O'HARE AIR RESERVE FORCES FACILITY, ILLINOIS		
4. PROJECT TITLE SECURITY POLICE OPERATIONS FACILITY		5. PROJECT NUMBER DPNB 90-9000

12. SUPPLEMENTAL DATA:

A. DESIGN DATA (Estimated)

1. STATUS

a. Date Design Started .... JUN 89

b. Percent Complete as of January 1, 1990........... 35

c. Date Design Expected to be 35% Complete.......... NOV 89

d. Date Design Complete .... MAY 90

2. BASIS

a. Standard or Definitive Design - Yes____ No X
b. Where Design Was Most Recently Used__________

3. COST (Total) = c = a+b or d+e ($000)

a. Production of Plans and Specifications ....(0)
b. All Other Design Costs..............................(0)
c. Total...(110)
d. Contract..(75)
e. In-house..(35)

4. CONSTRUCTION START.............................. APR 91
(month and year)

B. EQUIPMENT ASSOCIATED WITH THIS PROJECT WHICH WILL BE PROVIDED FROM OTHER APPROPRIATIONS:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
NONE			

GPO : 1985 O - 482-236

1. COMPONENT USAFR	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE 1 JAN 90
3. INSTALLATION AND LOCATION MCCONNELL AIR FORCE BASE, KANSAS		4. AREA CONSTR COST INDEX 0.91

5. FREQUENCY AND TYPE UTILIZATION

Facility is used daily. Unit training assemblies are two days per month and field training is conducted fifteen days per year.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS

Air National Guard unit

7. PROJECTS REQUESTED IN THIS PROGRAM

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
171-443	Civil Engineering Training Facility	6,600 SF	1000	08/88	02/90

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION

Approved for unilateral construction.

2 May 89
(Date)

9. LAND ACQUISITION REQUIRED

NONE
(Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

NONE

1 COMPONENT USAFR	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE 1 JAN 90

3 INSTALLATION AND LOCATION
MCCONNELL AIR FORCE BASE, KANSAS

11 PERSONNEL STRENGTH AS OF 30 Jun 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZED	2	0	0	2	127	7	120
ACTUAL	2	0	0	2	99	7	92

12 RESERVE UNIT DATA

UNIT DESIGNATION	STRENGTH AUTHORIZED	STRENGTH ACTUAL
921st Civil Engineering Squadron	127	99

13 MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ASSIGNED
NONE		

1 COMPONENT USAFR	FY 19_91 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 1 JAN 90

3 INSTALLATION AND LOCATION MCCONNELL AIR FORCE BASE, KANSAS (SAC)	4 PROJECT TITLE CIVIL ENGINEERING TRAINING FACILITY

5 PROGRAM ELEMENT 55394F	6 CATEGORY CODE 171-443	7 PROJECT NUMBER PRQE 90-9015	8 PROJECT COST ($000) 1,000

9 COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
CIVIL ENGINEERING TRAINING FACILITY	SF	6,600	103.00	680
SUPPORTING FACILITIES				223
ELECTRICAL	LS			(62)
PREWIRING & COMMUNICATIONS SUPPORT	LS			(27)
WATER	LS			(21)
SANITARY SEWER	LS			(10)
GAS	LS			(5)
SITE IMPROVEMENT	LS			(17)
PAVEMENTS	LS			(58)
LANDSCAPING	LS			(23)
SUBTOTAL				903
CONTINGENCY (5%)				45
TOTAL CONTRACT COST				948
SUPERVISION, INSPECTION AND OVERHEAD (5.5%)				52
TOTAL REQUEST				1,000
TOTAL REQUEST (ROUNDED)				1,000

10 DESCRIPTION OF PROPOSED CONSTRUCTION Consists of concrete foundation and floor slab, brick veneer exterior walls, and a sloped roof. Construction will be in compliance with the Base Comprehensive Plan. Project will provide all required utilities, fire detection/protection, and support facilities. Air Conditioning: 20 Tons

11. REQUIREMENT: 6,600 SF ADEQUATE: 0 SF SUBSTANDARD: 3,577 SF

PROJECT: Civil Engineering Training Facility. (Current Mission)

REQUIREMENT: An adequately sized and properly configured facility is required to support the 921st Reserve Civil Engineering Squadron. Requirements exist for classroom training area, mobility storage area, operations area, and administrative space. The unit requires joint use of the host's existing Base Civil Engineering shops, which necessitates construction of this facility nearby.

CURRENT SITUATION: The 921st Reserve Civil Engineering Squadron was activated at McConnell Air Force Base, Kansas on 1 October 1986. The squadron is building to an ultimate unit strength of 127 people. The squadron is temporarily housed in cramped space within an old wood frame structure which is remote to the host civil engineering complex and will be returned to the host for scheduled demolition following completion of this project. No storage space is available within the facility and insufficient space is available for training and unit administration. The host has no existing facility to satisfy the unit's requirements.

IMPACT IF NOT PROVIDED: The training environment will remain poor and inefficient. Recruiting and unit readiness will be adversely affected.

1 COMPONENT USAFR	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 1 JAN 90
3. INSTALLATION AND LOCATION MCCONNELL AIR FORCE BASE, KANSAS		
4. PROJECT TITLE CIVIL ENGINEERING TRAINING FACILITY		5. PROJECT NUMBER PRQE 90-9015

12. SUPPLEMENTAL DATA:

A. DESIGN DATA (Estimated)

1. STATUS

a. Date Design Started .... AUG 88

b. Percent Complete as of January 1, 1990........... 90

c. Date Design Expected to be 35% Complete.......... JUN 89

d. Date Design Complete .... FEB 90

2. BASIS

a. Standard or Definitive Design - Yes X No____
b. Where Design Was Most Recently Used____________

3. COST (Total) = c = a+b or d+e ($000)

a.	Production of Plans and Specifications	(0)
b.	All Other Design Costs..............................	(0)
c.	Total..	(110)
d.	Contract...	(90)
e.	In-house...	(20)

4. CONSTRUCTION START............................. APR 91
(month and year)

B. EQUIPMENT ASSOCIATED WITH THIS PROJECT WHICH WILL BE PROVIDED FROM OTHER APPROPRIATIONS:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
NONE			

GPO : 1985 O - 482-236

1. COMPONENT USAFR	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE 1 JAN 90
3. INSTALLATION AND LOCATION SELFRIDGE AIR NATIONAL GUARD BASE, MICHIGAN		4. AREA CONSTR COST INDEX 1.07

5. FREQUENCY AND TYPE UTILIZATION

Facilities are used daily. Unit training assemblies are four days per month and field training is conducted fifteen days per year.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS

5 Army Reserve Centers 2 Army Guard Armories
1 Naval Reserve Armory.

7. PROJECTS REQUESTED IN THIS PROGRAM

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
211-179	Add/Alter Fuel Systems Maintenance Dock	4,500 SF	650	10/84	04/86
171-873	Aerial Port Training Facility	14,200 SF	1,850	06/89	07/90

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION

May 88
(Date)

Approved for unilateral construction.

9. LAND ACQUISITION REQUIRED

NONE
(Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

CAT CODE	PROJECT TITLE	SCOPE (SF)	COST ($000)	YEAR
171-450	Medical Training(joint w/ANG)	15,000	1,200(AFRES) 1,200(ANG)	93

1 COMPONENT	FY 19 91 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE
USAFR		1 JAN 90

3 INSTALLATION AND LOCATION

SELFRIDGE AIR NATIONAL GUARD BASE, MICHIGAN

11 PERSONNEL STRENGTH AS OF 30 Jun 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZED	272	0	0	272	940	143	797
ACTUAL	278	0	0	278	996	146	850

12 RESERVE UNIT DATA

UNIT DESIGNATION	STRENGTH AUTHORIZED	STRENGTH ACTUAL
29th Mobile Aerial Port Squadron	138	146
305th Aerospace Rescue Recovery Squadron	232	243
927th Tactical Airlift Group	570	607
TOTAL	940	996

13 MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ASSIGNED
C-130E	8	8
HC-130H/N	4	4
TOTAL	12	12

DD FORM MAY 78 1390s/2 REPLACES DD FORM 1390S, DEC 76, WHICH IS OBSOLETE.

Page 2 of 2

1 COMPONENT USAFR	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 1 JAN 90

3 INSTALLATION AND LOCATION SELFRIDGE AIR NATIONAL GUARD BASE, MICHIGAN(ANG)	4 PROJECT TITLE ADD/ALTER FUEL SYSTEMS MAINTENANCE DOCK

5 PROGRAM ELEMENT 55394F	6 CATEGORY CODE 211-179	7 PROJECT NUMBER VGLZ 84-0053	8 PROJECT COST ($000) 650

9 COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ADD/ALTER FUEL SYSTEMS MAINTENANCE DOCK	SF	4,500	110.00	495
SUPPORTING FACILITIES				85
UTILITIES	LS			(45)
SITE IMPROVEMENT	LS			(30)
DEMOLITION	LS			(10)
SUBTOTAL				580
CONTINGENCY (5%)				29
TOTAL CONTRACT COST				609
SUPERVISION, INSPECTION & OVERHEAD (5.5%)				34
TOTAL REQUEST				643
TOTAL REQUEST (ROUNDED)				650

10 DESCRIPTION OF PROPOSED CONSTRUCTION 4,500 SF Addition to a C-130 Fuel Systems Maintenance Dock including relocation of the existing hangar doors. Steel frame with insulated metal skin. Concrete floor with pile foundation. All necessary supporting electrical, plumbing and mechanical work. Alter existing building to complete tie-in.

11. REQUIREMENT: 22,000 SF   ADEQUATE: 17,500 SF   SUBSTANDARD: 0 SF

PROJECT: Construct an addition to an existing C-130 Fuel Systems Maintenance Dock to allow total aircraft enclosure. (Current Mission)

REQUIREMENT: An adequate facility is required to provide day-to-day aircraft fuel systems maintenance in support of the reserve aircrew training missions and to provide "hands on" training to reserve fuel systems maintenance specialists. These specialists provide peacetime mission support to the 927th Tactical Airlift Group and the 305th Aerospace Rescue and Recovery Squadron and provide additional maintenance capabilities to the active force under activation conditions.

CURRENT SITUATION: This is the only facility at Selfridge ANGB for performing fuel systems maintenance and corrosion control on the assigned C-130 aircraft. This facility does not totally enclose the aircraft. During winter conditions, total aircraft washings cannot be accomplished. Additionally, loss of heat from the exposed tail section causes excessive condensation and severely hampers fuel systems maintenance.

IMPACT IF NOT PROVIDED: Failure to provide a totally enclosed area will continue to hinder the scope, timeliness, and quality of maintenance actions which will accelerate aircraft deterioration, decrease the training proficiency, and adversely impact readiness.

GPO : 1985 O - 478-508

1 COMPONENT USAFR	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 1 JAN 90
3 INSTALLATION AND LOCATION SELFRIDGE AIR NATIONAL GUARD BASE, MICHIGAN		
4 PROJECT TITLE ADD/ALTER FUEL SYSTEMS MAINTENANCE DOCK		5. PROJECT NUMBER VGLZ 84-0053

12. SUPPLEMENTAL DATA:

A. DESIGN DATA (Estimated)

1. STATUS

a. Date Design Started .... OCT 84

b. Percent Complete as of January 1, 1990........... 100

c. Date Design Expected to be 35% Complete.......... APR 85

d. Date Design Complete .... APR 86

2. BASIS

a. Standard or Definitive Design - Yes_____ No X
b. Where Design Was Most Recently Used____________________

3. COST (Total) = c = a+b or d+e ($000)

a. Production of Plans and Specifications ....(0)
b. All Other Design Costs..................................(0)
c. Total...(30)
d. Contract...(30)
e. In-house...(0)

4. CONSTRUCTION START.............................. APR 91
(month and year)

B. EQUIPMENT ASSOCIATED WITH THIS PROJECT WHICH WILL BE PROVIDED FROM OTHER APPROPRIATIONS:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
NONE			

GPO : 1985 O - 482-236

1 COMPONENT USAFR	FY 19_91 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 1 JAN 90

3 INSTALLATION AND LOCATION SELFRIDGE AIR NATIONAL GUARD BASE, MICHIGAN (ANG)	4 PROJECT TITLE AERIAL PORT TRAINING FACILITY

5 PROGRAM ELEMENT 55394F	6 CATEGORY CODE 171-873	7 PROJECT NUMBER VGLZ 91-9009	8 PROJECT COST ($000) 1,850

9 COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
AERIAL PORT TRAINING FACILITY	SF	14,200	100.00	1,420
SUPPORTING FACILITIES				270
COMMUNICATIONS PREWIRING	SF	4,000	3.60	(14)
COMPUTER PREWIRING	SF	1,000	3.60	(4)
SITE IMPROVEMENT	LS			(107)
UTILITIES	LS			(99)
PAVEMENTS	LS			(46)
SUBTOTAL				1,690
CONTINGENCY (5%)				84
TOTAL CONTRACT COST				1,774
SUPERVISION, INSPECTION & OVERHEAD (5.5%)				98
TOTAL REQUEST				1,872
TOTAL REQUEST (ROUNDED)				1,850

10 DESCRIPTION OF PROPOSED CONSTRUCTION Masonry walls, concrete foundation and floor slab, steel frame and built-up roof. Air Conditioning: 10 tons.

11. REQUIREMENT: 14,200 SF ADEQUATE: 0 SF SUBSTANDARD: 10,779 SF

PROJECT: Construct a new aerial port training facility to provide training, operational, and administrative space for the 29th Mobile Aerial Port Squadron. (Current Mission)

REQUIREMENT: An adequate facility is required for training reserve mobile aerial port squadron personnel in the processing and build-up of aircraft cargo loads for mobility, transport and airdrop missions; thus providing additional airlift resources to the active force under activation conditions.

CURRENT SITUATION: Since initially occupying the current facility the organization has grown from a flight to a squadron, doubling the number of personnel. The existing building, constructed in 1961 for fighter weapons calibration, has been added to and altered but provides an inefficient and ineffective training environment. It is remote from other unit functions and requires crossing the aircraft parking ramp and taxiway for access. The existing facility will be returned to the host.

IMPACT IF NOT PROVIDED: Continued operation in substandard facility will continue to adversely impact training. Remote location will continue to waste resources and squander limited training time, and conflicting vehicle traffic on airfield pavements will continue to have negative effects on all base flying activities.

1 COMPONENT
USAFR

FY 1991 MILITARY CONSTRUCTION PROJECT DATA

2 DATE
1 JAN 90

3 INSTALLATION AND LOCATION
SELFRIDGE AIR NATIONAL GUARD BASE, MICHIGAN

4 PROJECT TITLE
AERIAL PORT TRAINING FACILITY

5 PROJECT NUMBER
VGLZ 91-9009

12. SUPPLEMENTAL DATA:

A. DESIGN DATA (Estimated)

1. STATUS

a. Date Design Started .... JUN 89

b. Percent Complete as of January 1, 1990........... 35

c. Date Design Expected to be 35% Complete.......... DEC 89

d. Date Design Complete .... JUL 90

2. BASIS

a. Standard or Definitive Design - Yes____ No X
b. Where Design Was Most Recently Used____

3. COST (Total) = c = a+b or d+e ($000)

a. Production of Plans and Specifications ....(0)
b. All Other Design Costs..............................(0)
c. Total...(185)
d. Contract..(144)
e. In-house..(41)

4. CONSTRUCTION START................................ APR 91
(month and year)

B. EQUIPMENT ASSOCIATED WITH THIS PROJECT WHICH WILL BE PROVIDED FROM OTHER APPROPRIATIONS:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
NONE			

1. COMPONENT USAFR	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE 1 JAN 90
3. INSTALLATION AND LOCATION KEESLER AIR FORCE BASE, MISSISSIPPI		4. AREA CONSTR COST INDEX .85

5. FREQUENCY AND TYPE UTILIZATION

Facility is used daily. Unit training assemblies are four days per month and field training is conducted fifteen days per year.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS

1 Air National Guard Unit
2 Army National Guard Units
1 Naval Reserve Unit
1 Army Reserve Unit
1 Coast Guard Reserve Unit
1 Marine Corps Reserve Unit

7. PROJECTS REQUESTED IN THIS PROGRAM

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
171-450	Medical Training Facility	5,200 SF	600	04/88	07/89

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION

Approved for unilateral construction.

July 1988
(Date)

9. LAND ACQUISITION REQUIRED

NONE
(Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

CAT CODE	PROJECT TITLE	SCOPE (SF)	COST ($000)	YEAR
	NONE			

DD FORM 1 MAY 78 1390S/1 Page 1 of 2

1 COMPONENT USAFR	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE 1 JAN 90

3 INSTALLATION AND LOCATION

KEESLER AIR FORCE BASE, MISSISSIPPI

11 PERSONNEL STRENGTH AS OF 30 Jun 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZED	2	0	0	2	47	16	31
ACTUAL	2	0	0	2	46	15	31

12 RESERVE UNIT DATA

	STRENGTH	
UNIT DESIGNATION	AUTHORIZED	ACTUAL
403rd Tactical Hospital	47	46

13 MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ASSIGNED
C-130E	8	8
WC-130E/H	4	4

DD FORM MAY 78 1390s/2 REPLACES DD FORM 1390S, DEC 76, WHICH IS OBSOLETE.

Page 2 of 2

1 COMPONENT USAFR	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 1 JAN 90

3 INSTALLATION AND LOCATION KEESLER AIR FORCE BASE, MISSISSIPPI (ATC)	4 PROJECT TITLE MEDICAL TRAINING FACILITY

5 PROGRAM ELEMENT 55394F	6 CATEGORY CODE 171-450	7 PROJECT NUMBER MAHG 90-9905	8 PROJECT COST ($000) 600

9 COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
MEDICAL TRAINING FACILITY	SF	5,200	77.00	400
SUPPORTING FACILITIES				145
UTILITIES	LS			(45)
SITE IMPROVEMENT	LS			(25)
PAVEMENTS	LS			(40)
PREWIRING	SF	4,800	3.10	(15)
BUILDING DEMOLITION	LS			(18)
SUBTOTAL				545
CONTINGENCY (5%)				27
TOTAL CONTRACT COST				572
SUPERVISION, INSPECTION AND OVERHEAD (5.5%)				31
TOTAL REQUEST				603
TOTAL REQUEST (ROUNDED)				600

10 DESCRIPTION OF PROPOSED CONSTRUCTION Masonry walls, concrete foundation and floor slab, metal structural framing and a structurally enhanced roof system to resist hurricane winds, mechanical equipment room, latrines, and other necessary support areas. Demolish existing wood frame structure including asbestos removal and disposal.

Air Conditioning: 15 Tons.

11. REQUIREMENT: 5,200 SF ADEQUATE: 0 SF SUBSTANDARD: 4,800 SF

PROJECT: Construct a 5,200 SF Medical Training Facility. (Current Mission)

REQUIREMENT: An adequately sized and functionally efficient facility to support the command, training management, and mobility requirements of the 403rd Tactical Hospital.

CURRENT SITUATION: The Reserve medical unit occupies a 4,800 SF World War II era facility which is inadequate for the mission, cannot be economically upgraded, and will be demolished as part of this project. While most of the professional training is accomplished in the Keesler Medical Center, that facility cannot provide the space necessary for administration of the Reserve unit. Unit manning has increased substantially as part of an Air Force-wide medical build, increasing management and mobility space needs.

IMPACT IF NOT PROVIDED: Lack of adequate training, management and administrative space will continue to have a negative impact on the efficiency and effectiveness of training and will degrade the capability of the Reserve medical unit to perform its wartime mission.

ADDITIONAL: This project is a candidate for comprehensive interior design (CID).

DD FORM 1 DEC 76 1391

PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED

GPO : 1985 0 - 478-508

1. COMPONENT USAFR	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 1 JAN 90
3. INSTALLATION AND LOCATION KEESLER AIR FORCE BASE, MISSISSIPPI		
4. PROJECT TITLE MEDICAL TRAINING FACILITY		5. PROJECT NUMBER MAHG 90-9905

12. SUPPLEMENTAL DATA:

A. DESIGN DATA (Estimated)

1. STATUS

a. Date Design Started .... APR 88

b. Percent Complete as of January 1, 1990.......... 100

c. Date Design Expected to be 35% Complete.......... DEC 88

d. Date Design Complete .... JUL 89

2. BASIS

a. Standard or Definitive Design - Yes____ No X

b. Where Design Was Most Recently Used__________

3. COST (Total) = c = a+b or d+e ($000)

a. Production of Plans and Specifications ....(0)

b. All Other Design Costs............................(0)

c. Total...(86)

d. Contract..(48)

e. In-house..(38)

4. CONSTRUCTION START.............................. APR 91
(month and year)

B. EQUIPMENT ASSOCIATED WITH THIS PROJECT WHICH WILL BE PROVIDED FROM OTHER APPROPRIATIONS:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
NONE			

GPO : 1985 O - 482-236

1. COMPONENT
USAFR

FY 1991 GUARD AND RESERVE
MILITARY CONSTRUCTION

2. DATE
1 JAN 90

3. INSTALLATION AND LOCATION
OFFUTT AIR FORCE BASE, NEBRASKA

4. AREA CONSTR COST INDEX
1.05

5. FREQUENCY AND TYPE UTILIZATION

Facility is used daily. Unit training assemblies are two days per month and field training is conducted fifteen days per year.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS

2 Air Force Reserve Units
1 Naval/Marine Corp Reserve Unit
2 Army National Guard Units

7. PROJECTS REQUESTED IN THIS PROGRAM

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
171-443	Add/Alter Civil Engineering Training	5,000 SF	800	04/89	02/90

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION

Approved for unilateral construction.

19 May 89
(Date)

9. LAND ACQUISITION REQUIRED

NONE
(Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

CAT CODE	PROJECT TITLE	SCOPE (SF)	COST ($000)	YEAR
NONE				

1 COMPONENT USAFR	FY 19 91 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE 1 JAN 90

3 INSTALLATION AND LOCATION
OFFUTT AIR FORCE BASE, NEBRASKA

11 PERSONNEL STRENGTH AS OF 30 Jun 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZED	2	0	0	2	122	6	116
ACTUAL	2	0	0	2	134	6	128

12 RESERVE UNIT DATA

UNIT DESIGNATION	STRENGTH AUTHORIZED	STRENGTH ACTUAL
922nd Civil Engineering Squadron	122	134

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ASSIGNED
NONE		

1 COMPONENT USAFR	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 1 JAN 90

3 INSTALLATION AND LOCATION OFFUTT AIR FORCE BASE, NEBRASKA (SAC)	4 PROJECT TITLE ADD/ALTER CIVIL ENGINEERING TRAINING

5 PROGRAM ELEMENT 55394F	6 CATEGORY CODE 171-443	7 PROJECT NUMBER SGBP 90-9912	8 PROJECT COST ($000) 800

9 COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ADD/ALTER CIVIL ENGINEERING TRAINING	SF	5,000	120.00	600
SUPPORTING FACILITIES				87
COMMUNICATIONS SUPPORT	LS			(6)
EMCS CONNECTION	LS			(5)
SPRINKLER SYSTEM	LS			(18)
ALTER AIR CONDITIONING	LS			(25)
UTILITIES	LS			(33)
SUBTOTAL				687
CONTINGENCY (10%)				69
TOTAL CONTRACT COST				756
SUPERVISION, INSPECTION & OVERHEAD (5.5%)				42
TOTAL REQUEST				798
TOTAL REQUEST (ROUNDED)				800

10 DESCRIPTION OF PROPOSED CONSTRUCTION

Construct a mezzanine floor over an existing storage area in Bldg 301(D). Air conditioning, heating, communications, electric power, connect to utilities and supporting facilities as required.

Air Conditioning: 20 Tons

11. REQUIREMENT: 6,600 SF ADEQUATE: 1,600 SF SUBSTANDARD: 0 SF

PROJECT: Addition to/alteration of Bldg 301(D) to provide a 5,000 SF mezzanine for classroom training, operations, and administrative space. (Current Mission)

REQUIREMENT: Adequately sized and functionally configured space to satisfy all training, mobility storage, and administrative requirements of the 922nd Civil Engineering Squadron is required.

CURRENT SITUATION: The unit is presently housed in a basement area and two rooms on the second floor of Building 301(D). This existing space is too small and improperly configured for efficient operations of the Reserve Civil Engineering Squadron. The existing basement space will be retained to provide the mobility storage area.

IMPACT IF NOT PROVIDED: The Reserve Civil Engineering unit will not meet the requirements of its operational tasking. It will not be able to provide the training in preparation for its wartime tasking.

1 COMPONENT USAFR	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 1 JAN 90

3. INSTALLATION AND LOCATION

FFUTT AIR FORCE BASE, NEBRASKA

4. PROJECT TITLE DD/ALTER CIVIL ENGINEERING TRAINING	5. PROJECT NUMBER SGBP 90-9912

12. SUPPLEMENTAL DATA:

A. DESIGN DATA (Estimated)

1. STATUS

a. Date Design Started .... APR 89

b. Percent Complete as of January 1, 1990.......... 95

c. Date Design Expected to be 35% Complete.......... JUN 89

d. Date Design Complete .... FEB 90

2. BASIS

a. Standard or Definitive Design - Yes____ No X
b. Where Design Was Most Recently Used________

3. COST (Total) = c = a+b or d+e ($000)

a. Production of Plans and Specifications ....(0)
b. All Other Design Costs..............................(0)
c. Total..(82)
d. Contract...(54)
e. In-house...(28)

4. CONSTRUCTION START.............................. APR 91
(month and year)

B. EQUIPMENT ASSOCIATED WITH THIS PROJECT WHICH WILL BE PROVIDED FROM OTHER APPROPRIATIONS:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
NONE			

1. COMPONENT USAFR	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE 1 JAN 90
3. INSTALLATION AND LOCATION POPE AIR FORCE BASE, NORTH CAROLINA		4. AREA CONSTR COST INDEX 0.87

5. FREQUENCY AND TYPE UTILIZATION

Facility is used daily. Unit training assemblies are four days per month and field training is conducted fifteen days per year.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS

1 US Army Reserve Unit

7. PROJECTS REQUESTED IN THIS PROGRAM

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
171-443	Civil Engineering Training Facility	6,600 SF	790	06/87	05/89

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION

Approved for unilateral construction.

19 Jan 89
(Date)

9. LAND ACQUISITION REQUIRED

NONE
(Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

CAT CODE	PROJECT TITLE	SCOPE (SF)	COST ($000)	YEAR
NONE				

1. COMPONENT USAFR	FY 19 91 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE 1 JAN 90

3. INSTALLATION AND LOCATION
POPE AIR FORCE BASE, NORTH CAROLINA

11. PERSONNEL STRENGTH AS OF 30 Jun 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZED	2	0	0	2	141	7	134
ACTUAL	2	0	0	2	130	8	122

12. RESERVE UNIT DATA

UNIT DESIGNATION	STRENGTH AUTHORIZED	STRENGTH ACTUAL
915th Civil Engineering Squadron	141	130

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ASSIGNED
NONE		

1 COMPONENT USAFR	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 1 JAN 90

3 INSTALLATION AND LOCATION POPE AIR FORCE BASE, NORTH CAROLINA (MAC)	4 PROJECT TITLE CIVIL ENGINEERING TRAINING FACILITY

5 PROGRAM ELEMENT 55394F	6 CATEGORY CODE 171-443	7 PROJECT NUMBER TMKH 89-0457	8 PROJECT COST ($000) 790

9 COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
CIVIL ENGINEERING TRAINING FACILITY	SF	6,600	87.00	574
SUPPORTING FACILITIES				136
ELECTRICAL	LS			(28)
UTILITIES	LS			(47)
RELOCATION/DEMOLITION	LS			(17)
SITE IMPROVEMENT	LS			(10)
LANDSCAPING	LS			(10)
PAVEMENTS	LS			(24)
SUBTOTAL				710
CONTINGENCY (5%)				36
TOTAL CONTRACT COST				746
SUPERVISION, INSPECTION AND OVERHEAD (5.5%)				41
TOTAL REQUEST				787
TOTAL REQUEST (ROUNDED)				790

10 DESCRIPTION OF PROPOSED CONSTRUCTION Concrete/masonry walls on reinforced concrete slab and foundation. Steel frame and built-up roof. Extend and connect utilities. Air Conditioning: 10 Tons.

11. REQUIREMENT: 6,600 SF ADEQUATE: 0 SF SUBSTANDARD: 5,398 SF

PROJECT: Construct a consolidated facility for Reserve forces civil engineering squadron. (Current Mission)

REQUIREMENT: An adequately sized and properly configured facility is required to support the 915th Reserve Civil Engineering Squadron. Space is required for training classroom, mobility support equipment tool storage, and administrative areas.

CURRENT SITUATION: An adequate training facility is not available to the 915th Civil Engineering Squadron. The unit currently occupies an old house and a service station acquired by Pope AFB in a land purchase. These structures are remote to the host's engineering shops and administrative support area. Training is inefficient due to long travel times and excessive span of control. Storage of unit's tools and mobility equipment lack adequate security and environmental control. The existing house and service station will be returned to the host after project completion.

IMPACT IF NOT PROVIDED: Failure to provide a proper training facility will have an adverse impact on unit readiness and limit mission capability. Ineffective training and poor storage capabilities will continue to exist.

GPO : 1985 O - 478-508

1 COMPONENT USAFR	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 1 JAN 90
3 INSTALLATION AND LOCATION POPE AIR FORCE BASE, NORTH CAROLINA		
4 PROJECT TITLE CIVIL ENGINEERING TRAINING FACILITY		5 PROJECT NUMBER TMKH 89-0457

12. SUPPLEMENTAL DATA:

A. DESIGN DATA (Estimated)

1. STATUS

a. Date Design Started .... JUN 87

b. Percent Complete as of January 1, 1990........... 100

c. Date Design Expected to be 35% Complete.......... AUG 87

d. Date Design Complete .... MAY 89

2. BASIS

a. Standard or Definitive Design - Yes ____ No X
b. Where Design Was Most Recently Used ____

3. COST (Total) = c = a+b or d+e ($000)

a. Production of Plans and Specifications .... (0)
b. All Other Design Costs.............................. (0)
c. Total... (87)
d. Contract.. (45)
e. In-house.. (42)

4. CONSTRUCTION START.................................. APR 91
(month and year)

B. EQUIPMENT ASSOCIATED WITH THIS PROJECT WHICH WILL BE PROVIDED FROM OTHER APPROPRIATIONS:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
NONE			

1. COMPONENT	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE
USAFR		1 JAN 90

3. INSTALLATION AND LOCATION

RICKENBACKER AIR NATIONAL GUARD BASE, OHIO

4. AREA CONSTR COST INDEX

0.97

5. FREQUENCY AND TYPE UTILIZATION

Facility is used daily. Unit training assemblies are two days per month and field training is conducted fifteen days per year.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS

NONE

7. PROJECTS REQUESTED IN THIS PROGRAM

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
211-179	Alter Fuel Maintenance Dock (w/ANG)	LS	500(AFRES) 400(ANG)	03/89	01/90

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION

Approved for joint construction.

7 June 88
(Date)

9. LAND ACQUISITION REQUIRED

NONE
(Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

CAT CODE	PROJECT TITLE	SCOPE (SF)	COST ($000)	YEAR
NONE				

1. COMPONENT	FY 19 91 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE
USAFR		1 JAN 90

3. INSTALLATION AND LOCATION

RICKENBACKER AIR NATIONAL GUARD BASE, OHIO

11. PERSONNEL STRENGTH AS OF 30 JUN 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZED	345	19	146	180	624	106	518
ACTUAL	339	18	141	180	603	104	499

12. RESERVE UNIT DATA

UNIT DESIGNATION	STRENGTH AUTHORIZED	STRENGTH ACTUAL
907th Tactical Airlift Group	624	603

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ASSIGNED
C-130E	8	9
C-141	0*	0*

* Conversion Date July 1991

1 COMPONENT USAFR	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 1 JAN 90

3 INSTALLATION AND LOCATION RICKENBACKER AIR NATIONAL GUARD BASE, OHIO (ANG)	4 PROJECT TITLE ALTER FUEL MAINTENANCE DOCK (W/ANG)

5 PROGRAM ELEMENT 55394F 55294F	6 CATEGORY CODE 211-179	7 PROJECT NUMBER XPRF 90-900311	8 PROJECT COST ($000) 500 (AFRES) 400 (ANG)

9 COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ALTER FUEL MAINTENANCE DOCK (W/ANG)	LS			616
FIRE SUPPRESSION SYSTEM	SF	24,000	16.30	(391)
VAPOR RECOVERY SYSTEM	LS			(100)
DOOR MODIFICATION	LS			(125)
SUPPORTING FACILITIES	LS			155
SUBTOTAL				771
CONTINGENCY (10%)				77
TOTAL CONTRACT COST				848
SUPERVISION, INSPECTION AND OVERHEAD (5.5%)				47
TOTAL REQUEST				895
TOTAL REQUEST (ROUNDED)				900

10 DESCRIPTION OF PROPOSED CONSTRUCTION Modify hangar door to accept C-141B aircraft. Install Aqueous Film Forming Foam(AFFF) fire suppression and upgrade the existing ventilation system.

11. REQUIREMENT: 28,860 SF ADEQUATE: 4,860 SF SUBSTANDARD: 24,000 SF

PROJECT: Alter an existing fuel systems maintenance dock in compliance with all safety and fire suppression requirements. (New Mission)

REQUIREMENT: An adequate and safe facility is required to provide day-to-day aircraft fuel systems maintenance in support of the reserve and guard aircrew training missions and to provide "hands on" training to reserve and guard fuel systems maintenance specialists. These specialists provide peacetime mission support to an Air Refueling Group (KC-135) and a Strategic Airlift Group (C-141B) and provide additional maintenance capabilities to the active force under activation conditions.

CURRENT SITUATION: The existing fuel system repair dock does not have adequate ventilation or fire suppression systems. The door opening is not properly sized to accept future assigned C-141B aircraft.

IMPACT IF NOT PROVIDED: Lack of adequate fuel system repair facilities will restrict this essential work and require periodic deployment of aircraft to other locations for maintenance accomplishment. Such deployments degrade the quality of training of the reserve aircrews and maintenance specialists and could impact the unit's ability to fully respond to its wartime tasking.

DD FORM 1 DEC 76 1391

PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED

GPO : 1985 O - 478-508

1 COMPONENT USAFR	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 1 JAN 90
3 INSTALLATION AND LOCATION RICKENBACKER AIR NATIONAL GUARD BASE, OHIO		
4 PROJECT TITLE ALTER FUEL MAINTENANCE DOCK (W/ANG)		5. PROJECT NUMBER XPRF 90-900311

12. SUPPLEMENTAL DATA:

A. DESIGN DATA (Estimated)

1. STATUS

a. Date Design Started .... MAR 89

b. Percent Complete as of January 1, 1990.......... 95

c. Date Design Expected to be 35% Complete.......... AUG 89

d. Date Design Complete .... JAN 90

2. BASIS

a. Standard or Definitive Design - Yes_____ No X
b. Where Design Was Most Recently Used______________

3. COST (Total) = c = a+b or d+e ($000)

a. Production of Plans and Specifications ....(0)
b. All Other Design Costs..............................(0)
c. Total...(27)
d. Contract..(27)
e. In-house..(0)

4. CONSTRUCTION START.............................. APR 91
(month and year)

B. EQUIPMENT ASSOCIATED WITH THIS PROJECT WHICH WILL BE PROVIDED FROM OTHER APPROPRIATIONS:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
NONE			

GPO : 1985 O - 482-236

1. COMPONENT USAFR	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE 1 JAN 90

3. INSTALLATION AND LOCATION
WRIGHT-PATTERSON AIR FORCE BASE, OHIO

4. AREA CONSTR COST INDEX
1.04

5. FREQUENCY AND TYPE UTILIZATION

Facility is used daily. Unit training assemblies are six days per month and field training is conducted fifteen days per year.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS

1 Army Guard Armory	1 Marine Reserve Center
1 Air National Guard Unit	1 Navy Reserve Center

7. PROJECTS REQUESTED IN THIS PROGRAM

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
211-111	Upgrade Hangars/Shops	LS	3,731	02/88	12/89

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION

Approved for unilateral construction.

21 Aug 89
(Date)

9. LAND ACQUISITION REQUIRED

NONE
(Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

CAT CODE	PROJECT TITLE	SCOPE (SF)	COST ($000)	YEAR
NONE				

1 COMPONENT **USAFR**	FY 19 91 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE 1 JAN 90

3 INSTALLATION AND LOCATION
WRIGHT-PATTERSON AIR FORCE BASE, OHIO

11 PERSONNEL STRENGTH AS OF 30 Jun 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZED	218	0	0	218	561	10	551
ACTUAL	218	0	0	218	527	9	518

12 RESERVE UNIT DATA

	STRENGTH	
UNIT DESIGNATION	AUTHORIZED	ACTUAL
906th Consolidated Aircraft Maintenance Squadron	561	527

13 MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ASSIGNED
F-4D	18	18
F-16A/B	0*	0*

*Unit converts to 18 F-16A/B aircraft in 1st quarter FY 90.

1 COMPONENT USAFR	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 1 JAN 90

3 INSTALLATION AND LOCATION WRIGHT-PATTERSON AIR FORCE BASE, OHIO (AFLC)	4 PROJECT TITLE UPGRADE HANGARS/SHOPS

5 PROGRAM ELEMENT 55394F	6 CATEGORY CODE 211-111	7 PROJECT NUMBER ZHTV 90-9001	8 PROJECT COST ($000) 3,781

9 COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
UPGRADE HANGARS/SHOPS				
ALTERATIONS	LS			1,100
HANGAR DOORS	LS			660
FIRE PROTECTION SYSTEMS	LS			800
HANGAR BAY CEILINGS	LS			200
HANGAR BAY FLOOR REPLACEMENT	SY	2,700	75.00	203
ASBESTOS ABATEMENT	LS			157
PREWIRING (COMMUNICATIONS)	LS			18
EXTERIOR UTILITIES	LS			120
SUBTOTAL				3,258
CONTINGENCY (10%)				- 326
TOTAL CONTRACT COST				3,584
SUPERVISION, INSPECTION AND OVERHEAD (5.5%)				- 197
TOTAL REQUEST				3,781

10 DESCRIPTION OF PROPOSED CONSTRUCTION Install an Aqueous Film Forming Foam (AFFF) fire protection system, power outlets, new hangar doors and a ceiling in the hangar bays of Bldgs 148 and 268. Convert 4,800 SF of hangar bay in Bldg 148 to training and support space for Aircraft Generation. Renovate interior of the lean-to structures on both hangars. Replace hangar bay floor in Bldg 148. Work includes all necessary support and utilities.

11. REQUIREMENT: 73,746 SF ADEQUATE: 0 SF SUBSTANDARD: 73,746 SF

PROJECT: Upgrade hangars including new fire protection systems and interior renovation of lean-to support space. (Current Mission)

REQUIREMENT: Full fire protection is required for the high-value F-16 aircraft. Replacement of hangar floor with thicker pavement is required. Properly sized and configured maintenance management areas are required within the hangar lean-to's to support F-16 mission operations.

CURRENT SITUATION: The existing fire protection systems do not meet National Fire Protection Association Codes. Hangar doors are badly deteriorated. The hangar bays lack ceilings causing considerable energy loss and problems with roosting birds. Existing 5" floor pavements are failing and cannot support F-16 aircraft loading. The maintenance support areas are improperly configured to support maintenance operations. The Aircraft Generation Branch area is grossly undersized, lacking adequate space for training, tool and parts storage, and aircrew debriefing.

IMPACT IF NOT PROVIDED: Without this work, the high valued F-16A/B aircraft and the hangars will not be adequately protected from fire. Without the remaining modifications, the aircraft maintenance functions will be severely hampered and the unit' combat readiness will be degraded.

DD FORM 1 DEC 76 1391 PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED PAGE NO 61

GPO : 1985 O - 478-508

1 COMPONENT USAFR	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 1 JAN 90

3. INSTALLATION AND LOCATION

WRIGHT-PATTERSON AIR FORCE BASE, OHIO

4. PROJECT TITLE UPGRADE HANGARS/SHOPS	5. PROJECT NUMBER ZHTV 90-9001

12. SUPPLEMENTAL DATA:

A. DESIGN DATA (Estimated)

1. STATUS

a. Date Design Started .... FEB 88

b. Percent Complete as of January 1, 1990........... 100

c. Date Design Expected to be 35% Complete.......... AUG 88

d. Date Design Complete .... DEC 89

2. BASIS

a. Standard or Definitive Design - Yes_____ No X
b. Where Design Was Most Recently Used____________________

3. COST (Total) = c = a+b or d+e ($000)

a. Production of Plans and Specifications ....(0)
b. All Other Design Costs.............................(0)
c. Total..(255)
d. Contract...(204)
e. In-house...(51)

4. CONSTRUCTION START............................... APR 91
(month and year)

B. EQUIPMENT ASSOCIATED WITH THIS PROJECT WHICH WILL BE PROVIDED FROM OTHER APPROPRIATIONS:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
NONE			

GPO : 1985 O - 482-236

1. COMPONENT USAFR	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE 1 JAN 90
3. INSTALLATION AND LOCATION GREATER PITTSBURGH INTERNATIONAL AIRPORT, PENNSYLVANIA		4. AREA CONSTR COST INDEX 1.01

5. FREQUENCY AND TYPE UTILIZATION

Facility is used daily. Unit training assemblies are two days per month and field training is conducted fifteen days per year.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS

1 Air National Guard Unit

7. PROJECTS REQUESTED IN THIS PROGRAM

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
171-450	Medical Training Facility	10,400SF	1,900	11/88	02/90

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION

Approved for unilateral construction.

22 Aug 88
(Date)

9. LAND ACQUISITION REQUIRED

NONE
(Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

CAT CODE	PROJECT TITLE	SCOPE (SF)	COST ($000)	YEAR
171-475	Firing Range	24 FP	1,350	92
411-1325	Jet Fuel Storage	10,000 BL	2,300	94

1 COMPONENT USAFR	FY 19 91 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE 1 JAN 90

3 INSTALLATION AND LOCATION

GREATER PITTSBURGH INTERNATIONAL AIRPORT, PENNSYLVANIA

11 PERSONNEL STRENGTH AS OF 30 Jun 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZED	2	0	0	2	47	15	32
ACTUAL	2	0	2	0	50	16	34

12 RESERVE UNIT DATA

	STRENGTH	
UNIT DESIGNATION	AUTHORIZED	ACTUAL
911th Tactical Clinic	47	50

13 MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ASSIGNED
C-130H	8	8

1 COMPONENT USAFR	91 FY 19__ MILITARY CONSTRUCTION PROJECT DATA	2 DATE 1 JAN 90

3 INSTALLATION AND LOCATION GREATER PITTSBURGH INTERNATIONAL AIRPORT, PENNSYLVANIA	4 PROJECT TITLE MEDICAL TRAINING FACILITY

5 PROGRAM ELEMENT	6 CATEGORY CODE	7 PROJECT NUMBER	8 PROJECT COST ($000)
55394F	171-450	JLSS 90-9001	1,900

9 COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
MEDICAL TRAINING FACILITY	SF	10,400	137.00	1,425
SUPPORTING FACILITIES				290
ELECTRIC (INCL PREWIRING)	LS			(117)
UTILITIES	LS			(36)
DEMOLITION (FOUNDATIONS & PAVEMENTS)	LS			(20)
SITE IMPROVEMENTS	LS			(55)
ROADS, PARKING & WALKS	LS			(62)
SUBTOTAL				1,715
CONTINGENCY (5%)				86
TOTAL CONTRACT COST				1,801
SUPERVISION, INSPECTION AND OVERHEAD (5.5%)				99
TOTAL REQUEST				1,900
TOTAL REQUEST (ROUNDED)				1,900
EQUIPMENT FROM OTHER APPROPRIATIONS (3740)		(NON-ADD)		(300)

10 DESCRIPTION OF PROPOSED CONSTRUCTION A steel-framed masonry building with reinforced concrete foundation and floor slab, together with the required utilities and support facilities. Air Conditioning: 40 Tons

11. REQUIREMENT: 10,400 SF ADEQUATE: 0 SF SUBSTANDARD: 7,835 SF

PROJECT: Construct a Reserve medical training facility including classrooms, functional areas (exam rooms, X-ray, laboratory), storage for medical and training records, mobility equipment, supplies and management/administrative areas. (Current Mission)

REQUIREMENT: A facility, adequately sized and appropriately configured, to support medical training of the 911th Tactical Clinic personnel to perform their required wartime mission. The unit also provides non-therapeutic medical services in support of the 911th Tactical Airlift Group.

CURRENT SITUATION: The existing Tactical Clinic, constructed in 1957, is inadequate both in size and functional arrangement. Storage of medical supplies and the bioenvironmental offices are located in the basement of a dormitory building. Space for examinations and patient care is inadequate and the Clinic is congested. The improper functional configuration and cramped quarters, results in lost training time. The existing facility will be used to meet space deficiencies of the Weapon Systems Security Flight and the Combat Arms Training/Maintenance functions following completion of this project.

IMPACT IF NOT PROVIDED: The ineffective and inefficient training environment will continue to waste limited resources and the ability of the unit to fully augment the active force will be degraded.

ADDITIONAL: This project is a candidate for comprehensive interior design(CID).

1 COMPONENT USAFR	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 1 JAN 90
3 INSTALLATION AND LOCATION GREATER PITTSBURGH INTERNATIONAL AIRPORT, PENNSYLVANIA		
4 PROJECT TITLE MEDICAL TRAINING FACILITY		5 PROJECT NUMBER JLSS 90-9001

12. SUPPLEMENTAL DATA:

A. DESIGN DATA (Estimated)

1. STATUS

a. Date Design Started .... NOV 88

b. Percent Complete as of January 1, 1990........... 95

c. Date Design Expected to be 35% Complete.......... JUL 89

d. Date Design Complete .... FEB 90

2. BASIS

a. Standard or Definitive Design - Yes____ No X
b. Where Design Was Most Recently Used________

3. COST (Total) = c = a+b or d+e ($000)

a. Production of Plans and Specifications ....(0)
b. All Other Design Costs.............................(0)
c. Total..(197)
d. Contract...(137)
e. In-house...(60)

4. CONSTRUCTION START................................ APR 91
(month and year)

B. EQUIPMENT ASSOCIATED WITH THIS PROJECT WHICH WILL BE PROVIDED FROM OTHER APPROPRIATIONS:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Medical Equipment and Supplies	3740	91	300

GPO : 1985 O - 482-236

1. COMPONENT USAFR	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE 1 JAN 90
3. INSTALLATION AND LOCATION WILLOW GROVE AIR RESERVE FACILITY, PENNSYLVANIA		4. AREA CONSTR COST INDEX 1.08

5. FREQUENCY AND TYPE UTILIZATION

Facility is used daily. Unit training assemblies are two days per month and field training is conducted fifteen days per year.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS

1 Naval Reserve Unit
1 Marine Corps Reserve Unit
1 Air National Guard Unit
1 Army Reserve Unit

7. PROJECTS REQUESTED IN THIS PROGRAM

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
171-450	Medical Training Facility (w/ANG)	15,000 SF	1,250(AFRES) 1,250(ANG)	06/89	08/90

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION

Approved for joint construction.

22 Aug 88
(Date)

9. LAND ACQUISITION REQUIRED

NONE
(Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

CAT CODE	PROJECT TITLE	SCOPE (SF)	COST ($000)	YEAR
NONE				

DD FORM 1 MAY 78 1390S/1 Page 1 of 2

1 COMPONENT	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE
USAFR		1 JAN 90

3 INSTALLATION AND LOCATION

WILLOW GROVE AIR RESERVE FACILITY, PENNSYLVANIA

11 PERSONNEL STRENGTH AS OF 30 Jun 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZED	2	0	0	2	47	16	31
ACTUAL	2	0	0	2	46	15	31

12 RESERVE UNIT DATA

UNIT DESIGNATION	STRENGTH AUTHORIZED	STRENGTH ACTUAL
913th Tactical Clinic	47	46

13 MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ASSIGNED
C-130	8	8

1 COMPONENT USAFR	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 1 JAN 90

3 INSTALLATION AND LOCATION WILLOW GROVE AIR RESERVE FACILITY, PENNSYLVANIA	4 PROJECT TITLE MEDICAL TRAINING FACILITY (W/ANG)

5 PROGRAM ELEMENT 55394F	6 CATEGORY CODE 171-450	7 PROJECT NUMBER ZAWA 90-9001	8 PROJECT COST ($000) (AFRES) 1,250 (ANG) 1,250

9 COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
MEDICAL TRAINING FACILITY (JOINT W/ANG)	SF	15,000	130.00	1,950
SUPPORTING FACILITIES				285
UTILITIES	LS			(95)
TRANSFORMER	LS			(20)
SITE IMPROVEMENT	LS			(49)
PAVEMENTS	LS			(79)
PREWIRING	LS			(42)
SUBTOTAL				2,235
CONTINGENCY (5%)				112
TOTAL CONTRACT COST				2,347
SUPERVISION, INSPECTION AND OVERHEAD (5.5%)				129
TOTAL REQUEST				2,476
TOTAL REQUEST (ROUNDED)				2,500
EQUIP FROM OTHER APPROPRIATIONS (3740)		(NON ADD)		(375)

10 DESCRIPTION OF PROPOSED CONSTRUCTION Reinforced concrete foundation and floor slabs, walls to be 12" concrete block faced with brick, concrete roof deck with 5 ply built-up roofing materials over insulation. All supporting utilities and pavements are included.
Air Conditioning: 35 Tons.

11. REQUIREMENT: 15,000 SF ADEQUATE: 0 SF SUBSTANDARD: 5,158 SF

PROJECT: Construction of a Composite Medical Training Facility. (Current Mission)

REQUIREMENT: A facility is required to train Air Force Reserve and Air National Guard medical personnel and to provide non-therapeutic medical and dental support to all assigned AFRES and ANG personnel. The facility will provide classrooms, records maintenance, storage areas, and administrative space. Space also includes functional areas unique to a medical facility such as exam rooms, x-ray, and laboratory rooms. No available facility meets these needs.

CURRENT SITUATION: Recent increases in medical manpower assigned to these units have seriously overcrowded the existing facility. The facility is grossly undersized and functionally inefficient, adversely affecting the quality and quantity of training provided. Existing floor space will be used to resolve other training space deficiencies.

IMPACT IF NOT PROVIDED: Unless an adequately sized and properly configured facility is provided, the inefficient training environment will continue to waste limited resources and the ability of the units to fully augment the active force will be degraded.

ADDITIONAL: This project is a candidate for comprehensive interior design (CID).

DD FORM 1 DEC 76 1391 PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED

GPO : 1985 O - 478-508

1 COMPONENT USAFR	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 1 JAN 90
3 INSTALLATION AND LOCATION WILLOW GROVE AIR RESERVE FACILITY, PENNSYLVANIA		
4 PROJECT TITLE MEDICAL TRAINING FACILITY (W/ANG)	5. PROJECT NUMBER ZAWA 90-9001	

12. SUPPLEMENTAL DATA:

A. DESIGN DATA (Estimated)

1. STATUS

a. Date Design Started .... JUN 89

b. Percent Complete as of January 1, 1990........... 35

c. Date Design Expected to be 35% Complete.......... JAN 90

d. Date Design Complete .... AUG 90

2. BASIS

a. Standard or Definitive Design - Yes____ No X
b. Where Design Was Most Recently Used________

3. COST (Total) = c = a+b or d+e ($000)

a. Production of Plans and Specifications ....(0)
b. All Other Design Costs..............................(0)
c. Total...(256)
d. Contract..(220)
e. In-house..(36)

4. CONSTRUCTION START................................ APR 91
(month and year)

B. EQUIPMENT ASSOCIATED WITH THIS PROJECT WHICH WILL BE PROVIDED FROM OTHER APPROPRIATIONS:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
Medical Equipment and Supplies	3740	FY-91	375

GPO : 1985 O - 482-236

1. COMPONENT USAFR	FY 19 91 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE 1 JAN 90
3. INSTALLATION AND LOCATION BERGSTROM AIR FORCE BASE, TEXAS		4. AREA CONSTR COST INDEX 0.87

5. FREQUENCY AND TYPE UTILIZATION

Facilities are used daily. Unit training assemblies are two days per month and field training is conducted fifteen days per year.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS

1 Air National Guard Base

7. PROJECTS REQUESTED IN THIS PROGRAM

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
211-157	Add/Alter Maintenance Shops	LS	2,450	09/89	07/90

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION

Approved for unilateral construction

10 Oct 89
(Date)

9. LAND ACQUISITION REQUIRED

NONE
(Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

CAT CODE	PROJECT TITLE	SCOPE (SF)	COST ($000)	YEAR
880-232	Aircraft Hangar Fire Protection	LS	2,150	93

1. COMPONENT USAFR	FY 19 91 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE 1 JAN 90

3. INSTALLATION AND LOCATION
BERGSTROM AIR FORCE BASE, TEXAS

11. PERSONNEL STRENGTH AS OF 30 Jun 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZED	223	0	0	223	600	10	590
ACTUAL	223	0	0	223	596	11	585

12. RESERVE UNIT DATA

	STRENGTH	
UNIT DESIGNATION	AUTHORIZED	ACTUAL
924th Consolidated Aircraft Maintenance Squadron	600	596

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ASSIGNED
F-4E	18	18
F-16A/B	0 *	0 *

* Unit converts to 18 F-16A/B aircraft in 4th quarter FY 91.

1 COMPONENT USAFR	FY 19^{91} MILITARY CONSTRUCTION PROJECT DATA	2 DATE 1 JAN 90

3 INSTALLATION AND LOCATION BERGSTROM AIR FORCE BASE, TEXAS (TAC)	4 PROJECT TITLE ADD/ALTER MAINTENANCE SHOPS

5 PROGRAM ELEMENT 55394F	6 CATEGORY CODE 211-157	7 PROJECT NUMBER XPRF 92-900208	8 PROJECT COST ($000) 2,450

9 COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
ADD/ALTER MAINTENANCE SHOPS	LS			1,810
ADD/ALTER ENGINE SHOP (B.4589)	LS			(820)
ALTER EGRESS SHOP (B.4534)	LS			(50)
MUNITIONS STORAGE FACILITY	LS			(240)
MUNITIONS ASSEMBLY TRAINING AREA	LS			(100)
HYDRAZINE FACILITY AND PURGE AREA	LS			(600)
SUPPORTING FACILITIES	LS			400
SUBTOTAL				2,210
CONTINGENCY (5%)				111
TOTAL CONTRACT COST				2,321
SUPERVISION, INSPECTION AND OVERHEAD (5.5%)				128
TOTAL REQUEST				2,449
TOTAL REQUEST (ROUNDED)				2,450

10 DESCRIPTION OF PROPOSED CONSTRUCTION Construct a 800 SF addition to Engine Shop, Building 4589. Alter Engine Shop by installing overhead cranes, upgrading electrical system, and leveling the floor. Expand the Egress Shop in Building 4534, install overhead monorail hoist and grounding straps. Construct a 1,500 SF Munitions Storage Facility. Construct a paved Rapid Assembly of Munitions (RAMS) training area (approximately 11,400 SF), including loading ramp, grounding points and area lighting. Construct a 700 SF Hydrazine Service and Storage Facility and a Hydrazine Purge area. All utilities, pavements, fencing and necessary support work are included in the scope of construction.

11. REQUIREMENT: 18,325 SF ADEQUATE: 0 SF SUBSTANDARD: 14,525 SF

PROJECT: Add to and Alter Engine Shop. Expand and upgrade Egress Shop. Construct Munitions Storage Facility. Construct paved RAMS training area. Construct Hydrazine Facility and Purge Area. (New Mission)

REQUIREMENT: The assigned Tactical Fighter Wing is converting from F-4 to F-16 aircraft. This project accomplishes the second increment of facility construction necessary to support the new mission aircraft. An addition and facility modifications are necessary to provide adequate space for aircraft engine inspection and maintenance actions. Shop space is needed for maintenance on the F-16 Egress System (ejection seats and canopies). Storage is required for All-Up-Round (AUR) missiles and Ammunition Loading System (ALS) trailers used for training missions. Space for servicing and storage of hydrazine fuel cylinders unique to the new aircraft is needed as well as a paved area for purging the aircraft of hydrazine.

CURRENT SITUATION: The existing Engine Shop is too small and lacks adequate overhead cranes and utilities to support the engine maintenance requirements of the F-16 aircraft. The existing Egress Shop is too small

1 COMPONENT USAFR	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 1 JAN 90

3 INSTALLATION AND LOCATION

BERGSTROM AIR FORCE BASE, TEXAS

4 PROJECT TITLE ADD/ALTER MAINTENANCE SHOPS	5 PROJECT NUMBER XPRF 92-900208

and inadequately equipped to support the maintenance and storage of the F-16 ejection seats and canopies. The host base does not have adequate space to store the unit's AUR munitions and the ALS trailers. The site for RAMS training lacks lighting and cannot accommodate tractor trailer operations. There are no hydrazine servicing facilities at the base. IMPACT IF NOT PROVIDED: Without adequately sized and properly equipped facilities, the maintenance capabilities and operational readiness of the new mission will be impaired.

GPO : 1985 O - 482-236

1 COMPONENT USAFR	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 1 JAN 90

3 INSTALLATION AND LOCATION

BERGSTROM AIR FORCE BASE, TEXAS

4 PROJECT TITLE ADD/ALTER MAINTENANCE SHOPS	5. PROJECT NUMBER XPRF 92-900208

12. SUPPLEMENTAL DATA:

A. DESIGN DATA (Estimated)

1. STATUS

a. Date Design Started .... SEP 89

b. Percent Complete as of January 1, 1990........... 35

c. Date Design Expected to be 35% Complete.......... NOV 89

d. Date Design Complete .... JUL 90

2. BASIS

a. Standard or Definitive Design - Yes____ No X

b. Where Design Was Most Recently Used____________

3. COST (Total) = c = a+b or d+e ($000)

a. Production of Plans and Specifications ....(0)

b. All Other Design Costs.............................(0)

c. Total..(240)

d. Contract...(148)

e. In-house...(92)

4. CONSTRUCTION START.............................. JAN 91 (month and year)

B. EQUIPMENT ASSOCIATED WITH THIS PROJECT WHICH WILL BE PROVIDED FROM OTHER APPROPRIATIONS:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
NONE			

1. COMPONENT	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE
USAFR		1 JAN 90

3. INSTALLATION AND LOCATION

KELLY AIR FORCE BASE, TEXAS

4. AREA CONSTR COST INDEX
0.88

5. FREQUENCY AND TYPE UTILIZATION

Facilities are used daily. Unit training assemblies are two days per month and field training is conducted fifteen days per year.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS

Lackland Air Force Base
Brooks Air Force Base
1 Air National Guard Unit
Medina Army Training Post
Fort Sam Houston
4 Army Reserve Units

7. PROJECTS REQUESTED IN THIS PROGRAM

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
171-443	Composite Training Facility	11,000 SF	1,400	01/88	05/90
214-425	RED HORSE Vehicle Maintenance Shop	18,400 SF	2,300	01/88	09/90

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION

Approved for unilateral construction.

1 Dec 88
(Date)

9. LAND ACQUISITION REQUIRED

NONE
(Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

CAT CODE	PROJECT TITLE	SCOPE (SF)	COST ($000)	YEAR
171-873	Aerial Port Training Facility	16,000	2,000	92
171-443	Combat Logistics Sqdrn(w/AFLC)	LS	1,500	94

1. COMPONENT		2. DATE
USAFR	FY 19 91 GUARD AND RESERVE MILITARY CONSTRUCTION	1 JAN 90

3. INSTALLATION AND LOCATION
KELLY AIR FORCE BASE, TEXAS

11. PERSONNEL STRENGTH AS OF 30 Jun 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZED	141	0	0	141	604	63	541
ACTUAL	143	0	0	143	598	66	532

12. RESERVE UNIT DATA

UNIT DESIGNATION	STRENGTH AUTHORIZED	STRENGTH ACTUAL
433rd Airbase Support Group	80	78
433rd Airlift Control Flight	12	12
433rd Communications Squadron	24	30
433rd Military Airlift Wing	222	215
433rd Weapon Systems Security Flight	45	45
307th Civil Engineering Squadron Heavy Repair (RED HORSE)	221	218
Total	604	598

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ASSIGNED
C-5A	15	16

1 COMPONENT USAFR	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 1 JAN 90

3 INSTALLATION AND LOCATION KELLY AIR FORCE BASE, TEXAS (AFLC)	4 PROJECT TITLE COMPOSITE TRAINING FACILITY

5 PROGRAM ELEMENT 55394F	6 CATEGORY CODE 171-443	7 PROJECT NUMBER MBPB 90-9001	8 PROJECT COST ($000) 1,400

9 COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
COMPOSITE TRAINING FACILITY	SF	11,000	93.00	1,023
SUPPORTING FACILITIES				217
UTILITIES	LS			(99)
PREWIRING	SF	9,000	2.80	(25)
DEMOLITION	LS			(45)
SITE IMPROVEMENTS	LS			(20)
PAVEMENTS	LS			(28)
SUBTOTAL				1,240
CONTINGENCY (5%)				62
TOTAL CONTRACT COST				1,302
SUPERVISION, INSPECTION AND OVERHEAD (5.5%)				72
TOTAL REQUEST				1,374
TOTAL REQUEST (ROUNDED)				1,400

10 DESCRIPTION OF PROPOSED CONSTRUCTION Reinforced concrete slab and foundation, steel framing, masonry walls, and built-up roof. Provides classrooms, breakroom, latrines, administrative areas and all utilities and other necessary support. Demolish building 912 (5,900 SF) and an existing concrete foundation and parking area. Air Conditioning: 35 Tons.

11. REQUIREMENT: 63,600 SF ADEQUATE: 52,600 SF SUBSTANDARD: 5,900 SF

PROJECT: Construct a facility to accommodate training functions of the 433rd Military Airlift Wing(MAW). (Current Mission)

REQUIREMENT: A facility is required to provide operational/training space for the Airlift Control Flight, Weapon Systems Security Flight (WSSF), Communications Squadron, Staff Judge Advocate, and Chaplain. These functions support the peacetime aircrew training mission of the MAW and provide additional resources to the active force under activation conditions.

CURRENT SITUATION: Conversion from tactical (C-130) to strategic (C-5A) airlift and the resulting increase in support personnel has overcrowded the available training areas. Personnel are working in greatly undersized areas in hangar lean-tos and in various temporary facilities on hangar floors. Geographic dispersion and the inefficient training environment wastes resources and limited training time. The existing space will be utilized by the Deputy Commander for Maintenance with the exception of the current WSSF facility (Bldg 912/5,900 SF) which will be demolished.

IMPACT IF NOT PROVIDED: Training will remain inefficient. The ability of the unit to effectively accomplish its peacetime and readiness missions will be degraded.

ADDITIONAL: This project is a candidate for comprehensive interior design (CID).

DD FORM 1 DEC 76 1391

PREVIOUS EDITIONS MAY BE USED INTERNALLY UNTIL EXHAUSTED

GPO : 1985 O - 478-508

1. COMPONENT USAFR	FY 19 91 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 1 JAN 90
3. INSTALLATION AND LOCATION KELLY AIR FORCE BASE, TEXAS		
4. PROJECT TITLE COMPOSITE TRAINING FACILITY		5. PROJECT NUMBER MBPB 90-9001

12. SUPPLEMENTAL DATA:

A. DESIGN DATA (Estimated)

1. STATUS

a. Date Design Started .... JAN 88

b. Percent Complete as of January 1, 1990.......... 65

c. Date Design Expected to be 35% Complete.......... APR 89

d. Date Design Complete .... MAY 90

2. BASIS

a. Standard or Definitive Design - Yes____ No X
b. Where Design Was Most Recently Used________

3. COST (Total) = c = a+b or d+e ($000)

a. Production of Plans and Specifications ....(0
b. All Other Design Costs............................(0
c. Total...(160
d. Contract..(0
e. In-house..(160

4. CONSTRUCTION START.............................. JAN 91
(month and year

B. EQUIPMENT ASSOCIATED WITH THIS PROJECT WHICH WILL BE PROVIDED FROM OTHER APPROPRIATIONS:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
NONE			

GPO : 1985 0 - 482-236

1 COMPONENT USAFR	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 1 JAN 90

3 INSTALLATION AND LOCATION KELLY AIR FORCE BASE, TEXAS (AFLC)	4 PROJECT TITLE RED HORSE VEHICLE MAINTENANCE SHOP

5 PROGRAM ELEMENT 55394F	6 CATEGORY CODE 214-425	7 PROJECT NUMBER MBPB 90-9002	8 PROJECT COST ($000) 2,300

9 COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
RED HORSE VEHICLE MAINTENANCE SHOP	SF	18,400	89.00	1,638
SUPPORTING FACILITIES				429
DEMOLITION (BUILDING/PAVEMENTS)	LS			(141)
UTILITIES	LS			(78)
PREWIRING	LS	11,600	2.80	(42)
SITE IMPROVEMENT (PAVEMENTS)	LS			(141)
ENVIRONMENTAL CONTROLS	LS			(27)
SUBTOTAL				2,067
CONTINGENCY (5%)				103
TOTAL CONTRACT COST				2,170
SUPERVISION, INSPECTION AND OVERHEAD (5.5%)				119
TOTAL REQUEST				2,289
TOTAL REQUEST (ROUNDED)				2,300

10 DESCRIPTION OF PROPOSED CONSTRUCTION Steel frame, metal siding/brick walls, concrete slab, oil-water separator and weight scale. Areas include administration, general shop space, welding, lubrication, tire shop, and battery room. The existing building will be demolished.

Air Conditioning: 10 Tons.

11. REQUIREMENT: 18,400 SF ADEQUATE: 0 SF SUBSTANDARD: 21,600 SF

PROJECT: Construct a vehicle maintenance shop for the Air Force Reserve 307th Civil Engineering Squadron Heavy Repair (RED HORSE). (Current Mission)

REQUIREMENT: An adequately sized and properly configured facility is required to train RED HORSE vehicle maintenance specialists and to maintain heavy construction equipment and general purpose vehicles including jeeps, trucks, tractors, trailers, bulldozers, front-end loaders, scrapers, 13-tire roller, graders, trencher, mobile crane, forklifts and other vehicles.

CURRENT SITUATION: The unit currently operates out of a World War II era warehouse style facility. Emergency repairs have been required to prevent roof collapse. The building is completely unsuitable for construction equipment maintenance. The structure's only aisle is long and too narrow for the oversized heavy construction equipment (some are 60 feet in length, others are 12 feet wide). The turning radius into the vehicle repair stalls is too small. The aisles must frequently be used for maintenance and repair operations which blocks access to the vehicle stalls.

IMPACT IF NOT PROVIDED: The world-wide mission of the 307th Civil Engineering Squadron Heavy Repair (RED HORSE) will continue to be severely impaired due to the lack of timely and adequate maintenance on the heavy construction equipment to be employed in the unit's rapid deployment operations.

1 COMPONENT USAFR	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 1 JAN 90

3. INSTALLATION AND LOCATION

KELLY AIR FORCE BASE, TEXAS

4. PROJECT TITLE RED HORSE VEHICLE MAINTENANCE SHOP	5. PROJECT NUMBER MBPB 90-9002

12. SUPPLEMENTAL DATA:

A. DESIGN DATA (Estimated)

1. STATUS

a. Date Design Started .... JAN 88

b. Percent Complete as of January 1, 1990.......... 65

c. Date Design Expected to be 35% Complete.......... JUN 89

d. Date Design Complete .... AUG 90

2. BASIS

a. Standard or Definitive Design - Yes____ No X
b. Where Design Was Most Recently Used________

3. COST (Total) = c = a+b or d+e ($000)

a. Production of Plans and Specifications ....(0)
b. All Other Design Costs.............................(0)
c. Total..(240)
d. Contract...(0)
e. In-house...(240)

4. CONSTRUCTION START.............................. APR 91
(month and year)

B. EQUIPMENT ASSOCIATED WITH THIS PROJECT WHICH WILL BE PROVIDED FROM OTHER APPROPRIATIONS:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
NONE			

1. COMPONENT USAFR	FY 1991 GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE 1 JAN 90
3. INSTALLATION AND LOCATION MCCHORD AIR FORCE BASE, WASHINGTON		4. AREA CONSTR COST INDEX 1.26

5. FREQUENCY AND TYPE UTILIZATION

Facility is used daily. Unit training assemblies are four days per month and field training is conducted fifteen days per year.

6. OTHER ACTIVE/GUARD/RESERVE INSTALLATIONS WITHIN 15 MILE RADIUS

1 Army Installation
1 Army National Guard Headquarters

7. PROJECTS REQUESTED IN THIS PROGRAM

CATEGORY CODE	PROJECT TITLE	SCOPE	COST ($000)	DESIGN STATUS START	DESIGN STATUS COMPLETE
171-445	Squadron Operations Facility	8,000 SF	1,500	12/89	09/90

8. STATE RESERVE FORCES FACILITIES BOARD RECOMMENDATION

Approved for unilateral construction.

16 Feb 89
(Date)

9. LAND ACQUISITION REQUIRED

NONE
(Number of Acres)

10. PROJECTS PLANNED IN NEXT FOUR YEARS

CAT CODE	PROJECT TITLE	SCOPE (SF)	COST ($000)	YEAR
171-445	AFRES Addition to Squadron Operations Facility	5,200	1,150	91*

* Base Closure Companion Project

1 COMPONENT USAFR	FY 19_91GUARD AND RESERVE MILITARY CONSTRUCTION	2. DATE 1 JAN 90

3. INSTALLATION AND LOCATION

MCCHORD AIR FORCE BASE, WASHINGTON

11 PERSONNEL STRENGTH AS OF 30 Jun 89

	PERMANENT				GUARD/RESERVE		
	TOTAL	OFFICER	ENLISTED	CIVILIAN	TOTAL	OFFICER	ENLISTED
AUTHORIZED	237	0	0	237	1,469	217	1,252
ACTUAL	244	0	0	244	1,523	239	1,284

12. RESERVE UNIT DATA

	STRENGTH	
UNIT DESIGNATION	AUTHORIZED	ACTUAL
446th Military Airlift Wing (Associate)	1,469	1,523

13. MAJOR EQUIPMENT AND AIRCRAFT

TYPE	AUTHORIZED	ASSIGNED
C-141B (Associate)	34	34

DD FORM MAY 78 1390s/2 REPLACES DD FORM 1390S, DEC 76, WHICH IS OBSOLETE.

Page 2 of 2

1 COMPONENT USAFR	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 1 JAN 90

3 INSTALLATION AND LOCATION MCCHORD AIR FORCE BASE, WASHINGTON (MAC)	4 PROJECT TITLE SQUADRON OPERATIONS FACILITY

5 PROGRAM ELEMENT	6 CATEGORY CODE	7 PROJECT NUMBER	8 PROJECT COST ($000)
55394F	171-445	PQWY 91-9002	1,500

9 COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
SQUADRON OPERATIONS FACILITY	SF	8,000	140.00	1,120
SUPPORTING FACILITIES				231
UTILITIES	LS			(155)
BROAD BAND CABLE/COMMUNICATIONS SUPPORT	SF	8,000	9.50	(76)
SUBTOTAL				1,350
CONTINGENCY (5%)				68
TOTAL CONTRACT COST				1,418
SUPERVISION, INSPECTION & OVERHEAD (5.5%)				78
TOTAL REQUEST				1,496
TOTAL REQUEST (ROUNDED)				1,500

10 DESCRIPTION OF PROPOSED CONSTRUCTION Reinforced concrete spread footings, reinforced slab-on-grade concrete floor, concrete masonry unit walls, metal deck roof with formed metal roofing, central forced-air gas heat system, electrical, water and sanitary utilities. Fire detection/alarm systems. Prewired work stations and necessary cable to support required information and communications systems. Air Conditioning: 22 Tons

11. REQUIREMENT: 24,000 SF ADEQUATE: 11,000 SF SUBSTANDARD: 0 SF

PROJECT: Construct an 8,000 SF facility to house 446 MAW (Associate) squadron operations and training functions. **This is a joint-funded base closure project. Number PQWY91-3056 AFRES ADD TO SQ OPS FAC ($1,150,000) will construct a 5,000 SF addition to satisfy the deficiency.**

REQUIREMENT: An adequately sized facility that provides sufficient administrative and training space for efficient operations and training areas for Squadron Operations functions.

CURRENT SITUATION: The existing facility was constructed in 1977 and accommodates the operational and training mission requirements of 446 MAW (Associate). The Reserve mission has increased significantly since that time. Building 1207 currently houses two flying squadrons, Wing Intelligence, Tactics, Mission Control, Combat Aircrew Training and the Directorate of Operations. This is a full time staff of 55 persons and over 400 part-time personnel. The building is overcrowded and training space is not available.

IMPACT IF NOT PROVIDED: The units will continue to operate in overcrowded facilities degrading the mission. In order to maintain proficiency and currency, additional classroom training must be provided.

GPO : 1985 O - 478-508

1. COMPONENT USAFR	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 1 JAN 90
3. INSTALLATION AND LOCATION MCCHORD AIR FORCE BASE, WASHINGTON		
4. PROJECT TITLE SQUADRON OPERATIONS FACILITY		5. PROJECT NUMBER PQWY 91-9002

12. SUPPLEMENTAL DATA:

A. DESIGN DATA (Estimated)

1. STATUS

a. Date Design Started .... DEC 89

b. Percent Complete as of January 1, 1990........... 2

c. Date Design Expected to be 35% Complete.......... MAR 90

d. Date Design Complete .... SEP 90

2. BASIS

a. Standard or Definitive Design - Yes____ No X
b. Where Design Was Most Recently Used________

3. COST (Total) = c = a+b or d+e ($000)

a. Production of Plans and Specifications ....(0)
b. All Other Design Costs.............................(0)
c. Total..(150)
d. Contract...(120)
e. In-house...(30)

4. CONSTRUCTION START.................................. APR 91
(month and year)

B. EQUIPMENT ASSOCIATED WITH THIS PROJECT WHICH WILL BE PROVIDED FROM OTHER APPROPRIATIONS:

Equipment Nomenclature	Procuring Appropriation	Fiscal Year Appropriated Or Requested	Cost ($000)
NONE			

1 COMPONENT USAFR	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2 DATE 1 JAN 90

3 INSTALLATION AND LOCATION VARIOUS LOCATIONS - AIR FORCE RESERVE	4. PROJECT TITLE PROJECTS $400,000 AND UNDER

5 PROGRAM ELEMENT 55394F	6 CATEGORY CODE	7 PROJECT NUMBER	8 PROJECT COST ($000) 200

9 COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)

10 DESCRIPTION OF PROPOSED CONSTRUCTION

Following are individual justification paragraphs for all projects $400,000 and under.

VARIOUS LOCATIONS - WITHIN THE UNITED STATES

1. COMPONENT USAFR	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 1 JAN 90
3. INSTALLATION AND LOCATION VARIOUS LOCATIONS - WITHIN THE UNITED STATES		
4. PROJECT TITLE PROJECTS $400,000 AND UNDER	5. PROJECT NUMBER	

STATE AND LOCATION	COST ($000)	REQUIREMENT AND DESCRIPTION OF WORK
NEW YORK		
Niagara Falls IAP RVKQ 90-9003 422-264	200	MUNITIONS STORAGE (JOINT W/ANG): Project will construct a Live Missile Storage Building/Igloo with three 3,200 SF storage areas, a Munitions Storage Building/Igloo with four 600 SF and four 400 SF storage areas, and a Missile Maintenance Building. The AFRES contribution of $200K is for two of the 400 SF munitions storage areas. This new Munitions Maintenance and Storage Complex is required to support a NYANG aircraft/weapon systems conversion and current AFRES munitions storage requirements. Existing facilities are badly deteriorated, inadequate in storage capacity, and do not meet current quantity distance separation criteria for explosives storage. (Current Mission)

U.S.G.P.O.1984-420-979/13671

DEPARTMENT OF THE AIR FORCE
AIR FORCE RESERVE
JUSTIFICATION OF ESTIMATES FOR FISCAL YEAR 1991

APPROPRIATION: MILITARY CONSTRUCTION, AIR FORCE RESERVE

PROGRAM 340: MINOR CONSTRUCTION, FY 1991 $1,415,000

PART I - PURPOSE AND SCOPE

The funds estimated in this program are to provide financing for minor construction projects not otherwise authorized by law.

PART II - JUSTIFICATION OF FUNDS REQUESTED

The funds required for Minor Construction, $1,415,000 will provide for smaller projects authorized for the Reserve Forces by 10 USC 2233 and 2233(a).

1. COMPONENT USAFR	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 1 Jan 90

3. INSTALLATION AND LOCATION VARIOUS LOCATIONS - AIR FORCE RESERVE	4. PROJECT TITLE MINOR CONSTRUCTION

5. PROGRAM ELEMENT 55394F	6. CATEGORY CODE 020-000	7. PROJECT NUMBER 340	8. PROJECT COST ($000) 1,415

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Minor Construction	LS			1,415

10. DESCRIPTION OF PROPOSED CONSTRUCTION

Provide a lump sum amount for unspecified construction projects, not otherwise authorized by law, having a funded cost of $400,000 or less, including construction, alteration or conversion of permanent or temporary facilities, in accordance with 10 USC 2233 and 2233a.

11. REQUIREMENTS:

This package provides the means of accomplishing projects not exceeding $400,000 that are not now identified but which are anticipated to arise during FY

PREVIOUS EDITIONS MAY BE USED INTERNALLY
UNTIL EXHAUSTED
[illegible] 77

1. COMPONENT USAFR	FY 1991 MILITARY CONSTRUCTION PROJECT DATA	2. DATE 1 JAN 90

3. INSTALLATION AND LOCATION Architectural & Engineering Services and Construction Design - Air Force Reserve	4. PROJECT TITLE Construction Design

5. PROGRAM ELEMENT 55394F	6. CATEGORY CODE 001-000	7. PROJECT NUMBER 310	8. PROJECT COST ($000) 3,309

9. COST ESTIMATES

ITEM	U/M	QUANTITY	UNIT COST	COST ($000)
Construction Design - Air Force Reserve	LS			3,309

10. DESCRIPTION OF PROPOSED CONSTRUCTION

N/A

11. REQUIREMENT:

The funds for Architectural and Engineering Services and Construciton Design will provide for the completed design of facilities and evaluation of the design in terms of technical adequacy and estimated costs. In addition, these funds are required to prepare site surveys, develop master plan, working drawings, specifications, project planning reports and design required for those construction projects included in the Military Construction Program. The added emphasis being placed on the modernization of the weapon systems within the Air Force Reserve has generated numerous facility requirements requiring these Architectural and Engineering Services for Construction Design. It is vital that the Air Force Reserve be funded at the requested level to insure that operational readiness is not hampered because of inadequate facilities.